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```

a cag gac gct gta gct tca aaa atc tta gga ttg cct acg cag act gtt 49
  Gln Asp Ala Val Ala Ser Lys Ile Leu Gly Leu Pro Thr Gln Thr Val
    1           5           10           15
gat tca tca cag ggt tct gaa tat gac tat gtc ata ttc aca caa act 97
Asp Ser Ser Gln Gly Ser Glu Tyr Asp Tyr Val Ile Phe Thr Gln Thr
          20           25           30
act gaa aca gca cac tct tgt aat gtc aac cgc ttc aat gtg gct atc 145
Thr Glu Thr Ala His Ser Cys Asn Val Asn Arg Phe Asn Val Ala Ile
          35           40           45
aca agg gca aaa att ggc att ttg tgc ata atg tct gat aga gat ctt 193
Thr Arg Ala Lys Ile Gly Ile Leu Cys Ile Met Ser Asp Arg Asp Leu
          50           55           60
tat gac aaa ctg caa ttt aca agt cta gaa ata cca cgt cgc aat gtg 241
Tyr Asp Lys Leu Gln Phe Thr Ser Leu Glu Ile Pro Arg Arg Asn Val
          65           70           75           80
gct aca tta caa gca gaa aat gta act gga ctt ttt aag gac tgt agt 289
Ala Thr Leu Gln Ala Glu Asn Val Thr Gly Leu Phe Lys Asp Cys Ser
          85           90           95
aag atc att act ggt ctt cat cct aca cag gca cct aca cac ctc agc 337
Lys Ile Ile Thr Gly Leu His Pro Thr Gln Ala Pro Thr His Leu Ser
          100           105           110
gtt gat ata aaa ttc aag act gaa gga tta tgt gtt gac ata cca ggc 385
Val Asp Ile Lys Phe Lys Thr Glu Gly Leu Cys Val Asp Ile Pro Gly
          115           120           125
ata cca aag gac atg acc tac cgt aga ctc atc tct atg atg ggt ttc 433
Ile Pro Lys Asp Met Thr Tyr Arg Arg Leu Ile Ser Met Met Gly Phe
          130           135           140
aaa atg aat tac caa gtc aat ggt tac cct aat atg ttt atc acc cgc 481
Lys Met Asn Tyr Gln Val Asn Gly Tyr Pro Asn Met Phe Ile Thr Arg
          145           150           155           160
gaa gaa gct att cgt cac gtt cgt gcg tgg att ggc ttt gat gta gag 529
Glu Glu Ala Ile Arg His Val Arg Ala Trp Ile Gly Phe Asp Val Glu
          165           170           175
ggc tgt cat gca act aga gat gct gtg ggt act aac cta cct ctc cag 577
Gly Cys His Ala Thr Arg Asp Ala Val Gly Thr Asn Leu Pro Leu Gln
          180           185           190
cta gga ttt tct aca ggt gtt aac tta gta gct gta ccg act ggt tat 625
Leu Gly Phe Ser Thr Gly Val Asn Leu Val Ala Val Pro Thr Gly Tyr
          195           200           205
gtt gac act gaa aat aac cta
Val Asp Thr Glu Asn Asn Leu
          210           215

```

FIG. 1

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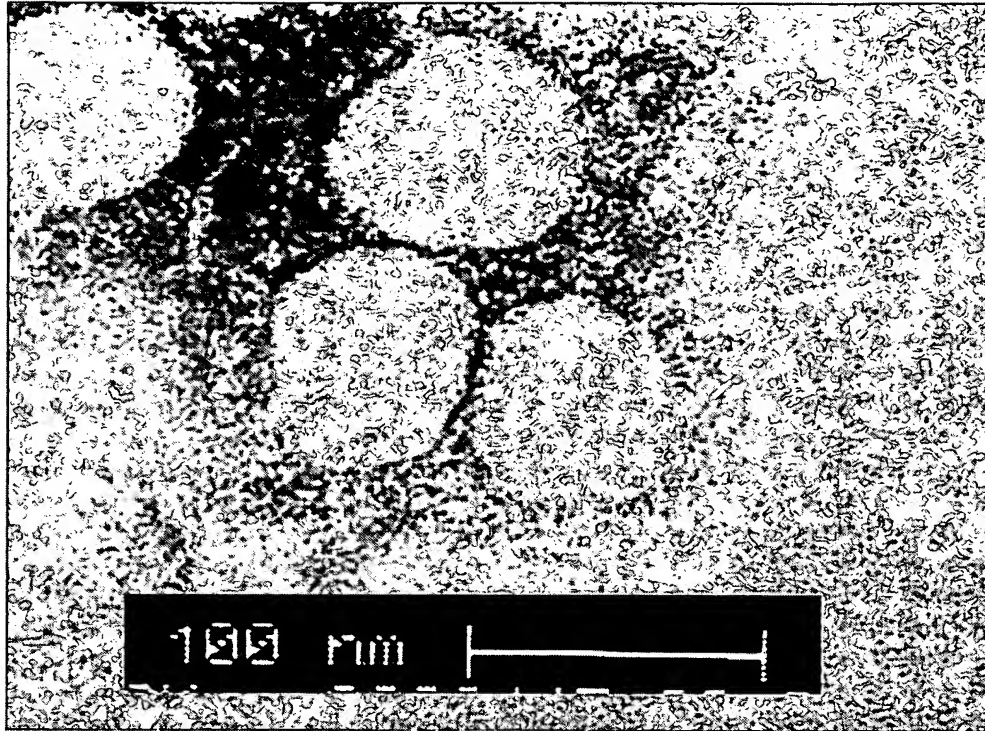


FIG. 2

BEST AVAILABLE COPY

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FIG. 3

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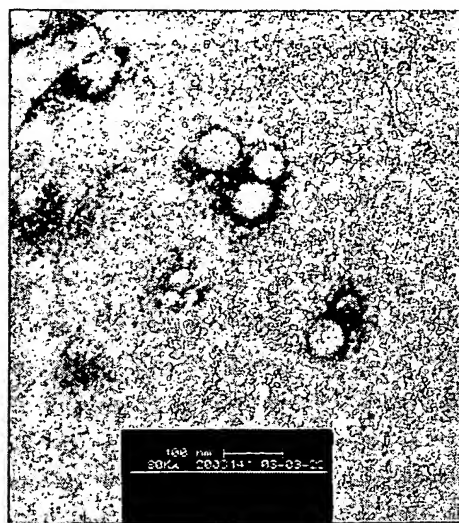


FIG. 4

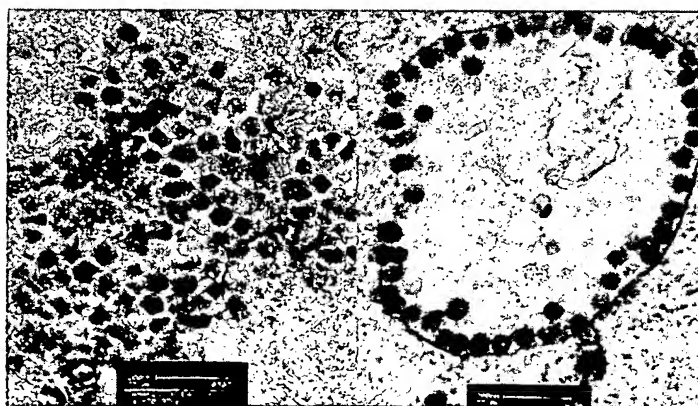


FIG. 5A

FIG. 5B

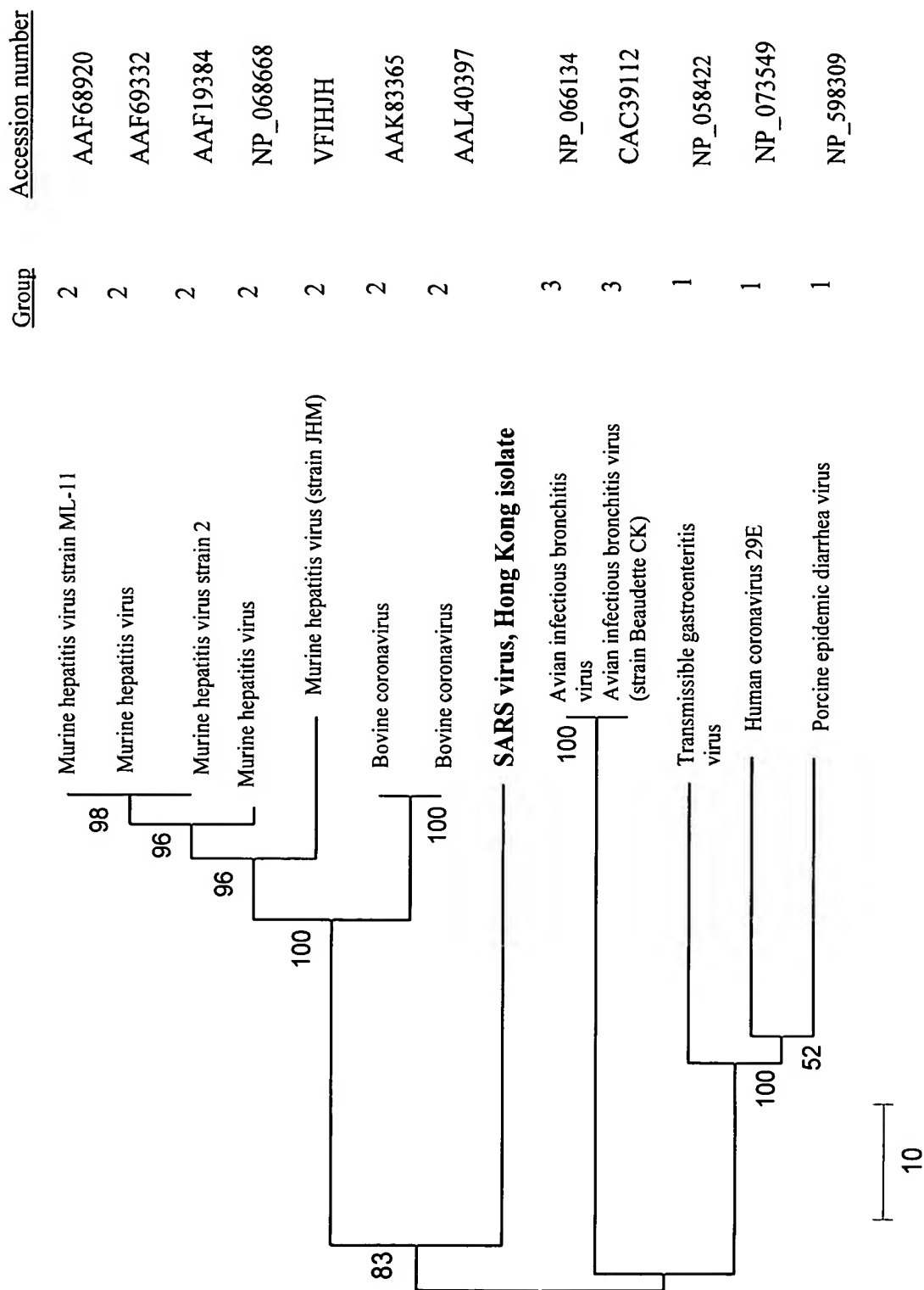


FIG. 6

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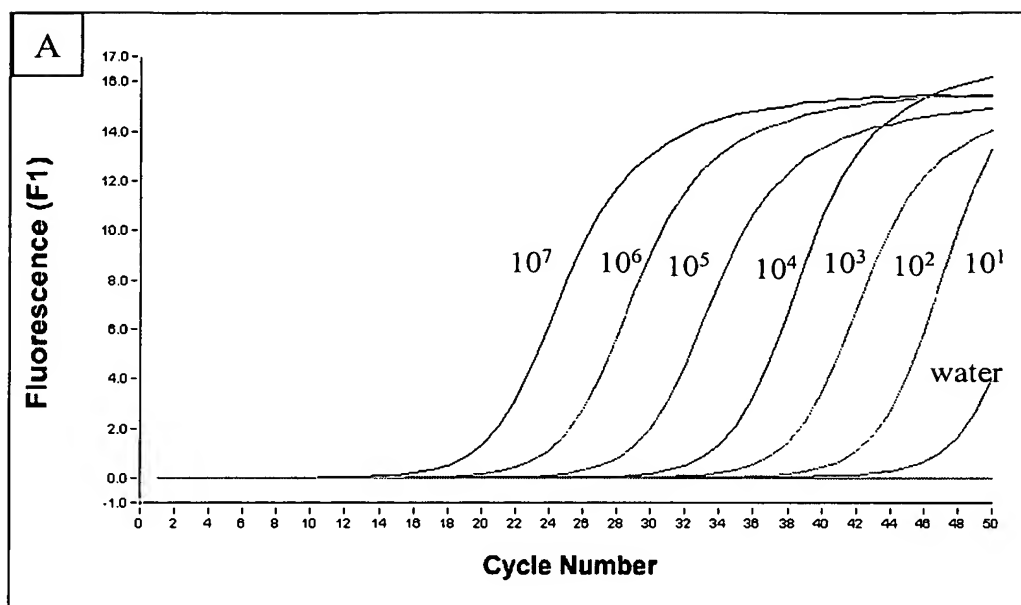


FIG. 7A

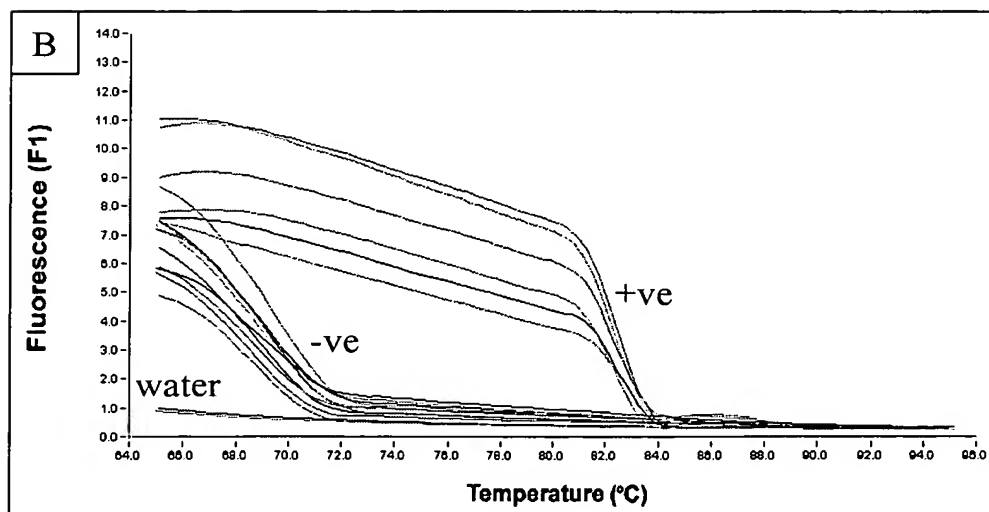


FIG. 7B

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t	aaa	tgt	agt	aga	atc	ata	cct	gcg	cgt	gcg	cgc	gta	gag	tgt	ttt	gat	49
	Lys	Cys	Ser	Arg	Ile	Ile	Pro	Ala	Arg	Ala	Arg	Val	Glu	Cys	Phe	Asp	
1					5					10					15		
aaa	ttc	aaa	gtg	aat	tca	aca	cta	gaa	cag	tat	gtt	ttc	tgc	act	gta		97
Lys	Phe	Lys	Val	Asn	Ser	Thr	Leu	Glu	Gln	Tyr	Val	Phe	Cys	Thr	Val		
			20					25					30				
aat	gca	ttg	cca	gaa	aca	act	gct	gac	att	gta	gtc	ttt	gat	gaa	atc		145
Asn	Ala	Leu	Pro	Glu	Thr	Thr	Ala	Asp	Ile	Val	Val	Phe	Asp	Glu	Ile		
		35					40					45					
tct	atg	gct	act	aat	tat	gac	ttg	agt	gtt	gtc	aat	gct	aga	ctt	cgt		193
Ser	Met	Ala	Thr	Asn	Tyr	Asp	Leu	Ser	Val	Val	Asn	Ala	Arg	Leu	Arg		
	50					55					60						
gca	aaa	cac	tac	gtc	tat	att	ggc	gat	cct	gct	caa	tta	cca	gcc	ccc		241
Ala	Lys	His	Tyr	Val	Tyr	Ile	Gly	Asp	Pro	Ala	Gln	Leu	Pro	Ala	Pro		
65					70				75						80		
cgc	aca	ttg	ctg	act	aaa	ggc	aca	cta	gaa	cca	gaa	tat	ttt	aat	tca		289
Arg	Thr	Leu	Leu	Thr	Lys	Gly	Thr	Leu	Glu	Pro	Glu	Tyr	Phe	Asn	Ser		
				85					90					95			
gtg	tgc	aga	ctt	atg	aaa	aca	ata	ggt	cca	gac	atg	ttc	ctt	gga	act		337
Val	Cys	Arg	Leu	Met	Lys	Thr	Ile	Gly	Pro	Asp	Met	Phe	Leu	Gly	Thr		
			100					105					110				
tgt	cgc	cgt	tgt	cct	gct	gaa	att	gtt	gac	act	gtg	agt	gct	tta	gtt		385
Cys	Arg	Arg	Cys	Pro	Ala	Glu	Ile	Val	Asp	Thr	Val	Ser	Ala	Leu	Val		
		115				120						125					
tat	gac	aat	aag	cta	aaa	gca	cac	aag	gag	aag	tca	gct	caa	tgc	ttc		433
Tyr	Asp	Asn	Lys	Leu	Lys	Ala	His	Lys	Glu	Lys	Ser	Ala	Gln	Cys	Phe		
	130					135					140						
aaa	atg	ttc	tac	aaa	ggt	gtt	att	aca	cat	gat	gtt	tca	tct	gca	atc		481
Lys	Met	Phe	Tyr	Lys	Gly	Val	Ile	Thr	His	Asp	Val	Ser	Ser	Ala	Ile		
145					150					155					160		
aac	aga	cct	caa	ata	ggc	gtt	gta	aga	gaa	ttt	ctt	aca	cgc	aat	cct		529
Asn	Arg	Pro	Gln	Ile	Gly	Val	Val	Arg	Glu	Phe	Leu	Thr	Arg	Asn	Pro		
				165					170					175			
gct	tg	aga	aaa	gct	gtt	ttt	atc	tca	cct	tat	aat	tca	cag	aac	gct		577
Ala	Trp	Arg	Lys	Ala	Val	Phe	Ile	Ser	Pro	Tyr	Asn	Ser	Gln	Asn	Ala		
			180					185					190				
gta	gct	tca	aaa	atc	tta	gga	ttg	cct	acg	cag	act	gtt	gat	tca	tca		625
Val	Ala	Ser	Lys	Ile	Leu	Gly	Leu	Pro	Thr	Gln	Thr	Val	Asp	Ser	Ser		
		195				200						205					
cag	ggt	tct	gaa	tat	gac	tat	gtc	ata	ttc	aca	caa	act	act	gaa	aca		673
Gln	Gly	Ser	Glu	Tyr	Asp	Tyr	Val	Ile	Phe	Thr	Gln	Thr	Thr	Glu	Thr		
	210					215					220						

FIG. 8

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gca cac tct tgt aat gtc aac cgc ttc aat gtg gct atc aca agg gca	721
Ala His Ser Cys Asn Val Asn Arg Phe Asn Val Ala Ile Thr Arg Ala	
225 230 235 240	
aaa att ggc att ttg tgc ata atg tct gat aga gat ctt tat gac aaa	769
Lys Ile Gly Ile Leu Cys Ile Met Ser Asp Arg Asp Leu Tyr Asp Lys	
245 250 255	
ctg caa ttt aca agt cta gaa ata cca cgt cgc aat gtg gct aca tta	817
Leu Gln Phe Thr Ser Leu Glu Ile Pro Arg Arg Asn Val Ala Thr Leu	
260 265 270	
caa gca gaa aat gta act gga ctt ttt aag gac tgt agt aag atc att	865
Gln Ala Glu Asn Val Thr Gly Leu Phe Lys Asp Cys Ser Lys Ile Ile	
275 280 285	
act ggt ctt cat cct aca cag gca cct aca cac ctc agc gtt gat ata	913
Thr Gly Leu His Pro Thr Gln Ala Pro Thr His Leu Ser Val Asp Ile	
290 295 300	
aaa ttc aag act gaa gga tta tgt gtt gac ata cca ggc ata cca aag	961
Lys Phe Lys Thr Glu Gly Leu Cys Val Asp Ile Pro Gly Ile Pro Lys	
305 310 315 320	
gac atg acc tac cgt aga ctc atc tct atg atg ggt ttc aaa atg aat	1009
Asp Met Thr Tyr Arg Arg Leu Ile Ser Met Met Gly Phe Lys Met Asn	
325 330 335	
tac caa gtc aat ggt tac cct aat atg ttt atc acc cgc gaa gaa gct	1057
Tyr Gln Val Asn Gly Tyr Pro Asn Met Phe Ile Thr Arg Glu Glu Ala	
340 345 350	
att cgt cac gtt cgt gcg tgg att ggc ttt gat gta gag ggc tgt cat	1105
Ile Arg His Val Arg Ala Trp Ile Gly Phe Asp Val Glu Gly Cys His	
355 360 365	
gca act aga gat gct gtg ggt act aac cta cct ctc cag cta gga ttt	1153
Ala Thr Arg Asp Ala Val Gly Thr Asn Leu Pro Leu Gln Leu Gly Phe	
370 375 380	
tct aca ggt gtt aac tta gta gct gta ccg act ggt tat gtt gac act	1201
Ser Thr Gly Val Asn Leu Val Ala Val Pro Thr Gly Tyr Val Asp Thr	
385 390 395 400	
gaa aat aac cta	1213
Glu Asn Asn Leu	

FIG. 8 Con't

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c	aga	acc	atg	cct	aac	atg	ctt	agg	ata	atg	gcc	tct	ctt	gtt	ctt	gct	49
Arg	Thr	Met	Pro	Asn	Met	Leu	Arg	Ile	Met	Ala	Ser	Leu	Val	Leu	Ala		
1				5				10						15			
cgc	aaa	cat	aac	act	tgc	tgt	aac	tta	tca	cac	cgt	ttc	tac	agg	tta	97	
Arg	Lys	His	Asn	Thr	Cys	Cys	Asn	Leu	Ser	His	Arg	Phe	Tyr	Arg	Leu		
			20					25					30				
gct	aac	gag	tgt	gcg	caa	gta	tta	agt	gag	atg	gtc	atg	tgt	ggc	ggc	145	
Ala	Asn	Glu	Cys	Ala	Gln	Val	Leu	Ser	Glu	Met	Val	Met	Cys	Gly	Gly		
		35					40					45					
tca	cta	tat	gtt	aaa	cca	ggg	gga	aca	tca	tcc	ggg	gat	gct	aca	act	193	
Ser	Leu	Tyr	Val	Lys	Pro	Gly	Gly	Thr	Ser	Ser	Gly	Asp	Ala	Thr	Thr		
	50					55					60						
gct	tat	gct	aat	agt	gtc	ttt	aac	att	tgt	caa	gct	gtt	aca	gcc	aat	241	
Ala	Tyr	Ala	Asn	Ser	Val	Phe	Asn	Ile	Cys	Gln	Ala	Val	Thr	Ala	Asn		
65					70				75					80			
gta	aat	gca	ctt	ctt	tca	act	gat	ggg	aat	aag	ata	gct	gac	aag	tat	289	
Val	Asn	Ala	Leu	Leu	Ser	Thr	Asp	Gly	Asn	Lys	Ile	Ala	Asp	Lys	Tyr		
			85					90						95			
gtc	cgc	aat	cta	caa	cac	agg	ctc	tat	gag	tgt	ctc	tat	aga	aat	agg	337	
Val	Arg	Asn	Leu	Gln	His	Arg	Leu	Tyr	Glu	Cys	Leu	Tyr	Arg	Asn	Arg		
			100					105					110				
gat	gtt	gat	cat	gaa	ttc	gtg	gat	gag	ttt	tac	gct	tac	ctg	cgt	aaa	385	
Asp	Val	Asp	His	Glu	Phe	Val	Asp	Glu	Phe	Tyr	Ala	Tyr	Leu	Arg	Lys		
		115					120					125					
cat	ttc	tcc	atg	atg	att	ctt	tct	gat	gat	gcc	gtt	gtg	tgc	tat	aac	433	
His	Phe	Ser	Met	Met	Ile	Leu	Ser	Asp	Asp	Ala	Val	Val	Cys	Tyr	Asn		
	130					135					140						
agt	aac	tat	gcg	gct	caa	ggg	tta	gta	gct	agc	att	aag	aac	ttt	aag	481	
Ser	Asn	Tyr	Ala	Ala	Gln	Gly	Leu	Val	Ala	Ser	Ile	Lys	Asn	Phe	Lys		
145					150				155					160			
gca	gtt	ctt	tat	tat	caa	aat	aat	gtg	ttc	atg	tct	gag	gca	aaa	tgt	529	
Ala	Val	Leu	Tyr	Tyr	Gln	Asn	Asn	Val	Phe	Met	Ser	Glu	Ala	Lys	Cys		
				165				170				S		175			
tgg	act	gag	act	gac	ctt	act	aaa	gga	cct	cac	gaa	ttt	tgc	tca	cag	577	
Trp	Thr	Glu	Thr	Asp	Leu	Thr	Lys	Gly	Pro	His	Glu	Phe	Cys	Ser	Gln		
			180					185					190				
cat	aca	atg	cta	gtt	aaa	caa	gga	gat	gat	tac	gtg	tac	ctg	cct	tac	625	
His	Thr	Met	Leu	Val	Lys	Gln	Gly	Asp	Asp	Tyr	Val	Tyr	Leu	Pro	Tyr		
		195					200					205					
cca	gat	cca	tca	aga	ata	tta	ggc	gca	ggc	tgt	ttt	gtc	gat	gat	att	673	
Pro	Asp	Pro	Ser	Arg	Ile	Leu	Gly	Ala	Gly	Cys	Phe	Val	Asp	Asp	Ile		
	210					215					220						
gtc	aaa	cag	atg	gta	cac	tta	tga	ttg	aaa	ggg	tcc	gtg	tca	ctg	gct	721	
Val	Lys	Gln	Met	Val	His	Leu											
225					230												
att	gat	gc														729	

FIG. 9

```

1  atattaggtt tttacctacc caggaaaagc caaccaacct cgaatctcttg tagatctggt
61 ctctaaacga acttttaaat ctgtgtagct gtcgctcggc tgcattgccta gtgcacctac
121 gcagtataaa caataataaa ttttactgtc gttgacaaga aacgagtaac tcgtccctct
181 tctgcagact gcttacgggt tcgtccgtgt tgcagtcgat catcagcata cctagggtttc
241 gtccgggtgt gaccgaaagg taagatggag agccttggtc ttgggtgtcaa cgagaaaaaca
301 cacgtccaac tcagtttgcc tgccttcag gttagagacg tgctagtgcg tggcttcggg
361 gactctgtgg aagaggccct atcggaggca cgtgaacacc tcaaaaatgg cacttgtggt
421 ctagtagagc tggaaaaagg cgtactgccc cagcttgaac agccctatgt gttcattaaa
481 cgttctgatg ccttaagcac caatcacggc cacaaggctg ttgagctggt tgcagaaatg
541 gacggcattc agtacggctg tagcgggata acactgggag tactcgtgcc acatgtgggc
601 gaaaccccaa ttgcataccg caatgttctt cttcgtaaga acggtataaa gggagccggg
661 ggtcatagct atggcatcga tctaaagtct tatgacttag gtgacgagct tggcactgat
721 ccattgaag attatgaaca aaactggaac actaagcatg gcagtggtgc actccgtgaa
781 ctcaactcgt agctcaatgg aggtgcagtc actcgtctatg tcgacaacaa tttctgtggc
841 ccagatgggt accctcttga ttgcatcaaa gattttctcg cacgcgcggg caagtcaatg
901 tgcactcttt ccgaacaact tgattacatc gagtogaaga gaggtgtcta ctgctgccgt
961 gaccatgagc atgaaattgc ctggttcact gagcgctctg ataagagcta cgagcaccag
1021 acacccttcg aaattaagag tgccaagaaa tttgacactt tcaaagggga atgccccaaag
1081 tttgtgtttc ctcttaactc aaaagtcaaa gtcattcaac cacgtgttga aaagaaaaag
1141 actgagggtt tcatggggcg tatacgtctt gtgtaccctg ttgcatctcc acaggagtgt
1201 aacaatatgc acttgctcac cttgatgaaa tghtaatcatt gcgatgaagt ttcattggcag
1261 acgtgcgact ttctgaaagc cacttgtgaa cacttgtggc ctgaaaattt agttattgaa
1321 ggacctacta catgtgggta cctacctact aatgctgtag tgaaaatgcc atgtcctgcc
1381 tgtcaagacc cagagattgg acctgagcat agtgttgagc attatcacia ccactcaaac
1441 attgaaactc gactccgcaa gggaggtagg actagatgtt ttggaggctg tgtgtttgcc
1501 tatgttggct gctataataa gcgtgcctac tgggttcctc gtgctagtgc tgatattggc
1561 tcaggccata ctggcattac tgggtgacaat gtggagacct tgaatgagga tctccttgag
1621 atactgagtc gtgaacgtgt taacattaac attgttggcg attttcatth gaatgaagag
1681 gttgccatca ttttggcatc tttctctgct tctacaagtg cctttattga cactataaag
1741 agtcttgatt acaagtcttt caaaaccatt tttagtctct gcggtactta taaagttacc
1801 aagggaaaag ccgtaaaagg tgcttggaa cttggacaac agagatcagt ttaaacacca
1861 ctgtgtgggt ttccctcaca ggctgctggg gttatcagat caatttttgc gcgcacactt
1921 gatgcagcaa accactcaat tctgtatttg caaagagcag ctgtcaccat acttgatggg
1981 atttctgaac agtcattacg tcttgcagac gccatgggtt atacttcaga cctgtccacc
2041 aacagtgtca ttattatggc atatgtaact ggtggtcttg tacaacagac ttctcagtgg
2101 ttgtctaata ttttgggcac tactgttgaa aaactcaggc ctatctttga atggattgag
2161 gcgaaactta gtgcaggagt tgaatttctc aaggatgctt gggagattct caaatttctc
2221 attacaggtg tttttgacat cgtcaagggt caaatacagg ttgcttcaga taacatcaag
2281 gattgtgtaa aatgcttcat tgatgttgg ttgaaggcac tcgaaagtgt cattgatcaa
2341 gtcactatcg ctggcgcaaa gttgcgatca ctcaacttag gtgaagtctt catcgctcaa
2401 agcaagggac tttaccgtca gtgtatacgt ggcaaggagc agctgcaact actcatgcct
2461 cttaaggcac caaaagaagt aacctttctt gaaggtgatt cacatgacac agtacttacc
2521 tctgaggagg ttgttctcaa gaacggtgaa ctcgaagcac tcgagacgcc cgttgatagc
2581 ttcacaaatg gagctatcgt cggcacacca gtctgtgtaa atggcctcat gctcttagag
2641 attaggaca aagaacaata ctgctgcttg tctcctgggt tactggctac aaacaatgtc
2701 tttcgcttaa aaggggggtg accaattaaa ggtgtaacct ttggagaaga tactgtttgg
2761 gaagttcaag gttacaagaa tgtgagaatc acatttgagc ttgatgaacg tgttgacaaa
2821 tgctttaatg aaaagtgtct tgtctacact gttgaatccg gtaccgaagt tactgagttt
2881 gcatgtgttg tagcagaggc tgttgtgaag actttacaac cagtttctga tctccttacc
2941 aacatgggta ttgatcttga tgagtggagt gtagctacat tctacttatt tgatgatgct
3001 ggtgaagaaa acttttctac acgtatgtat tgttcttttt accctccaga tgaggaagaa
3061 gaggacgatg cagagtgtga ggaagaagaa attgatgaaa cctgtgaaca tgagtacggg
3121 acagaggatg attatcaagg tctccctctg gaatttggtg cctcagctga aacagttcga
3181 gttgaggaag aagaagagga agactggctg gatgatacta ctgagcaatc agagattgag
3241 ccagaaccag aacctacacc tgaagaacca gttaatcagt ttactgggta tttaaaactt
3301 actgacaatg ttgccattaa atgtgttgac atcgttaagg aggcacaaaag tgctaactct

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FIG. 10

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3361 atgggtgattg taaatgctgc taacatacac ctgaaacatg gtgggtgggtg agcagggtgca
3421 ctcaacaagg caaccaatgg tgccatgcaa aaggagagtg atgattacat taagctaaat
3481 ggccctctta cagtaggagg gtcttggttg ctttctggac ataatcttgc taagaagtgt
3541 ctgcatgttg ttggacctaa cctaaatgca ggtgaggaca tccagcttct taaggcagca
3601 tatgaaaatt tcaattcaca ggacatctta cttgcaccat tgttgtcagc aggcataattt
3661 ggtgctaaac cacttcagtc tttacaagtg tgcgtgcaga cggttcgtac acagggtttat
3721 attgcagtca atgacaaaagc tctttatgag caggttgtca tggattatct tgataacctg
3781 aagcctagag tggagcacc taaacaagag gagccaccaa acacagaaga ttccaaaact
3841 gaggagaaat ctgtcgtaca gaagcctgtc gatgtgaagc caaaaattaa ggccctgcatt
3901 gatgaggtta ccacaacact ggaagaaact aagtttctta ccaataagtt actcttgttt
3961 gctgatatca atggtaagct ttaccatgat tctcagaaca tgcttagagg tgaagatatg
4021 tctttccttg agaaggatgc accttacatg gtagggtgat tttacactag tgggtatatc
4081 acttgtgttg taataccctc caaaaaggct ggtggcacta ctgagatgct ctcaagagct
4141 ttgaagaaag tgccagttga tgagtatata accacgtacc ctggacaagg atgtgctggg
4201 tatacacttg aggaagctaa gactgctctt aagaaatgca aatctgcatt ttatgtacta
4261 ccttcagaag cacctaattgc taaggaagag attctaggaa ctgtatcctg gaatttgaga
4321 gaaatgcttg ctcatgctga agagacaaga aaattaatgc ctatatgcat ggatgttaga
4381 gccataatgg caaccatcca acgtaagtat aaaggaatta aaattcaaga gggcatcggt
4441 gactatgggtg tccgattctt cttttatact agtaaagagc ctgtagcttc tattattacg
4501 aagctgaact ctctaaatga gccgcttgct acaatgcca ttggttatgt gacacatggg
4561 tttaatcttg aagaggctgc gcgctgtatg cgttctctta aagctcctg cgtagtgtca
4621 gtatcatcac cagatgctgt tactacatat aatggatacc tcacttcgtc atcaaagaca
4681 tctgaggagc actttgtaga aacagtttct ttggctggct cttacagaga ttggtcctat
4741 tcaggacagc gtacagagtt aggtgttgaa tttcttaagc gtggtgacaa aatttgtgtac
4801 cacactctgg agagccccgt cgagtttcat cttgacgggt aggttctttc acttgacaaa
4861 ctaaagagtc tcttatccct gcgggagggt aagactataa aagtgttcac aactgtggac
4921 aacactaatc tccacacaca gcttgtggat atgtctatga catatggaca gcagtttggt
4981 ccaacatact tggatgggtgc tgatgttaca aaaattaaac ctcatgtaaa tcatgagggt
5041 aagactttct ttgtactacc tagtgatgac acactacgta gtgaagcttt cgagtactac
5101 cactactctg atgagagttt tcttggtagg tacatgtctg ctttaaacca cacaagaaa
5161 tggaaatttc ctcaagttgg tggtttaact tcaattaaat gggctgataa caattgttat
5221 ttgtctagtg ttttattagc acttcaacag cttgaagtca aattcaatgc accagcactt
5281 caagaggctt attatagagc ccgtgctggg gatgctgcta acttttgtgc actcactctc
5341 gcttacagta ataaaactgt tggcgagctt ggtgatgtca gagaaactat gacccatctt
5401 ctacagcatg ctaatttgga atctgcaaag cgagttctta atgtgggtgtg taaacattgt
5461 ggtcagaaaa ctactacctt aacgggtgta gaagctgtga tgtatatggg tactctatct
5521 tatgataatc ttaagacagg tgtttccatt ccatgtgtgt gtggtcgtga tgctacacaa
5581 tatctagtac aacaagagtc ttcttttgtt atgatgtctg caccactgc tgagtataaa
5641 ttacagcaag gtacattctt atgtgcgaat gagtacactg gtaactatca gttgggtcat
5701 tacactcata taactgctaa ggagaccctc tatcgtattg acggagctca ccttacaaag
5761 atgtcagagt acaaaggacc agtgactgat gttttctaca aggaacatc ttactacta
5821 accatcaagc ctgtgtcgta taaactcgat ggagttactt acacagagat tgaacaaaa
5881 ttggatgggt attataaaaa ggataatgct tactatacag agcagcctat agaccttgta
5941 ccaactcaac cattaccaa tgcgagtttt gataatttca aactcacatg ttctaacaca
6001 aaattttgctg atgattttaa tcaaatgaca ggcttcacaa agccagcttc acgagagcta
6061 tctgtcacat tcttcccaga cttgaatggc gatgtagtgg ctattgacta tagacactat
6121 tcagcgagtt tcaagaaagg tgctaaatta ctgcataagc caattgtttg gcacattaac
6181 caggctacaa ccaagacaac gttcaaacca aacacttggg gtttacgttg tctttggagt
6241 acaaaggccag tagatacttc aaattcattt gaagttctgg cagtagaaga cacacaagga
6301 atggacaatc ttgcttgtga aagtcaacaa cccacctctg aagaagtagt ggaaaatcct
6361 accatacaga aggaagtcac agagtgtgac gtgaaaacta ccgaagtgtg aggcaatgtc
6421 atacttaaac catcagatga aggtgtttaa gtaacacaag agttaggtca tgaggatctt
6481 atggctgctt atgtggaaaa cacaagcatt accattaaga aacctaatga gctttcacta
6541 gccttagggt taaaaacaat tgccactcat ggtattgtct caattaatag tgttccttgg
6601 agtaaaatct tggcttatgt caaacattc ttaggacaag cagcaattac aacatcaaat
6661 tgcgctaaga gattagcaca acgtgtgttt aacaattata tgccttatgt gtttacatta

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FIG. 10 Con't

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6721 ttgttccaat tgtgtacttt tactaaaagt accaattcta gaattagagc ttcactacct
6781 acaactattg ctaaaaatag tgttaagagt gttgctaaat tatgtttgga tgccggcatt
6841 aattatgtga agtcacccaa attttctaaa ttgttcacaa tcgctatgtg gctattggtg
6901 ttaagtattt gcttaggttc tctaattctgt gtaactgctg cttttggtgt actcttatct
6961 aattttggtg ctcttcttta ttgtaatggc gttagagaat tgtatcttaa ttcgtctaac
7021 gttactacta tggatttctg tgaaggttct tttccttgca gcatttgttt aagtggatta
7081 gactcccttg attcttatcc agctcttgaa accattcagg tgacgatttc atcgtaacaag
7141 ctagacttga caatttttagg tctggccgct gagtgggttt tggcatatat gttgttcaca
7201 aaattctttt atttattagg tctttcagct ataatgcagg tgttctttgg ctattttgct
7261 agtcatttca tcagcaattc ttggctcatg tggtttatca ttagtattgt acaaatggca
7321 cccgtttctg caattggttag gatgtacatc ttctttgctt ctttctacta catatggaag
7381 agctatgttc atatcatgga tgggtgcacc tcttcgactt gcatgatgtg ctataagcgc
7441 aatcgtgcca cagcgttga gtgtacaact attgttaatg gcatgaagag atctttctat
7501 gtctatgcaa atggaggccg tggcttctgc aagactcaca attggaattg tctcaattgt
7561 gacacatttt gcaactggtag tacattcatt agtgatgaag ttgctcgtga tttgtcactc
7621 cagtttaaaa gaccaatcaa cctactgac cagtcacgt atattgttga tagtggtgct
7681 gtgaaaaatg gcgcgcttca cctctacttt gacaaggctg gtcaaaagac ctatgagaga
7741 catccgctct cccattttgt caatttagac aatttgagag ctaacaacac taaaggttca
7801 ctgcctatta atgtcatagt ttttgatggc aagtccaaat gcgacgagtc tgcttctaag
7861 tctgtctctg tgtactacag tcagctgatg tgccaaccta tctgttgcct tgaccaagct
7921 cttgtatcaa acggttgaga tagtactgaa ttcttcgtta agatgtttga tggctatgtc
7981 gacacctttt cagcaacttt tagtgttcct atggaaaaac ttaaggcact tgttgctaca
8041 gctcacagcg agttagcaaa ggggtgtagc ttagatgggtg tcctttctac attcgtgtca
8101 gctgcccagc aagggtgtgt tgataccgat gttgacacaa aggatgttat tgaatgtctc
8161 aaactttcac atcactctga cttagaagtg acaggtgaca gttgtaacaa tttcatgctc
8221 acctataata aggttgaaaa catgacgccc agagatcttg gcgcatgat tgactgtaat
8281 gcaaggcata tcaatgcccc agtagcaaaa agtcacaaat tttcactcat ctggaatgta
8341 aaagactaca tgtctttatc tgaacagctg cgtaaacaaa ttcgtactgc tgccaagaag
8401 aacaacatac cttttacact aacttgtgct acaactagac aggttgtcaa tgtcataact
8461 actaaaatct cactcaaggg ttgtaagatt gttagtactt gttttaaact tatgcttaag
8521 gccacattat tgtgcgttct tgotgcattg gtttgttata tcgttatgcc agtacatata
8581 ttgtcaatcc atgatgggta cacaaatgaa atcattgggt acaaagccat tcaggatggg
8641 gtcactcgtg acatcatttc tactgatgat tgttttgcaa ataaacatgc tggttttgac
8701 gcatgggtta gccagcgtgg tggttcatac aaaaatgaca aaagctgccc tgtagtagct
8761 gctatcatta caagagagat tggtttcata gtgcctggct taccgggtac tgtgctgaga
8821 gcaatcaatg gtgacttctt gcattttcta cctcgtggtt ttagtgctgt tggcaacatt
8881 tgctacacac cttccaaact cattgagtat agtgattttg ctacctctgc ttgcgttctt
8941 gctgctgagt gtacaatttt taaggatgct atgggcaaac ctgtgccata tgttatgac
9001 actaatttgc tagagggttc tatttcttat agtgagcttc gtccagacac tcgttatgtg
9061 cttatggatg gttccatcat acagtttctt aacacttacc tggagggttc tgttagagta
9121 gtaacaactt ttgatgctga gtactgtaga catggtacat gcgaaagggtc agaagtaggt
9181 atttgcctat ctaccagtgg tagatgggtt cttaataatg agcattacag agctctatca
9241 ggagttttct gtgggtgttg tgcgatgaat ctcatagcta acatctttac tcctcttggtg
9301 caacctgtgg gtgctttaga tgtgtctgct tcagtagtgg ctggtgggtat tattgccata
9361 ttggtgactt gtgctgccta ctactttatg aaattcagac gtgtttttgg tgagtacaac
9421 catgtttgtg ctgctaattg acttttgggt ttgatgtctt tcactatact ctgtctggta
9481 ccagcttata gctttctgcc gggagtctac tcagtccttt acttgtactt gacattctat
9541 ttcaccaatg atgtttcatt cttggctcac cttcaatggg ttgccaatgtt ttctcctatt
9601 gtgccttttt ggataacagc aatctatgta ttctgtatgt ctctgaagca ctgccattgg
9661 ttcttttaaca actatcttag gaaaagagtc atgtttaatg gagttacatt tagtaccttc
9721 gaggaggctg ctttgtgtac ctttttgctc aacaaggaaa tgtacctaaa attgcttagc
9781 gagacactgt tgccacttac acagtataac aggtatcttg ctctatataa caagtacaag
9841 tatttcagtg gagccttaga tactaccagc tatcgtgaag cagcttgctg ccacttagca
9901 aaggctctaa atgactttag caactcaggt gctgatgttc tctaccaacc accacagaca
9961 tcaatcactt ctgctgttct gcagagtggg tttaggaaaa tggcattccc gtcaggcaaa
10021 gttgaagggt gcatggtaca agtaacctgt ggaactacaa ctcttaatgg attgtgggtg

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FIG. 10 Con't

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10081 gatgacacag tatactgtcc aagacatgtc atttgcacag cagaagacat gcttaatcct
10141 aactatgaag atctgtcat tcgcaaatcc aaccatagct ttcttgttca ggctggcaat
10201 gttcaacttc gtgttattgg ccattctatg caaaattgtc tgcttaggct taaagttgat
10261 acttctaacc ctaagacacc caagtataaa tttgtccgta tccaacctgg tcaaacattt
10321 tcagttctag catgctacaa tggttcacca tctggtgttt atcagtggtc catgagacct
10381 aatcatacca ttaaagggtc ttcccttaat ggatcatgtg gtagtggttg ttttaacatt
10441 gattatgatt gcgtgtcttt ctgctatatg catcatatgg agcttccaac aggagtacac
10501 gctggtactg acttagaagg taaattctat ggtccatttg ttgacagaca aactgcacag
10561 gctgcaggta cagacacaac cataacatta aatgttttgg catggctgta tgctgctgtt
10621 atcaatggtg ataggtgggt tcttaataga ttcaccacta ctttgaatga ctttaacctt
10681 gtggcaatga agtacaacta tgaacctttg acacaagatc atgttgacat attgggacct
10741 ctttctgtct aaacaggaat tgccgtctta gatatgtgtg ctgctttgaa agagctgctg
10801 cagaatggta tgaatggtcg tactatcctt ggtagcacta ttttagaaga tgagtttaca
10861 ccatttgatg ttgttagaca atgctctggg gttaccttcc aaggtaagtt caagaaaatt
10921 gttaagggca ctcatcattg gatgctttta actttcttga catcactatt gattcttggt
10981 caaagtacac agtgggcact gtttttcttt gtttacgaga atgctttctt gccatttact
11041 cttggtatta tggcaattgc tgcattgtgt atgctgcttg ttaagcataa gcacgcattc
11101 ttgtgcttgt ttctgttacc ttctcttgca acagttgctt actttaatat ggtctacatg
11161 cctgctagct gggatgatgc tatcatgaca tggcttgaat tggctgacac tagcttgtct
11221 ggttataggc ttaaggattg tgttatgtat gcttcagctt tagttttgct tagttctcatg
11281 acagctcgca ctgtttatga tgatgtgtct agacgtgttt ggacactgat gaatgtcatt
11341 acacttgttt acaaagtcta ctatggtaat gcttttagatc aagctatttc catgtgggac
11401 ttagttattt ctgtaacctc taactattct ggtgtcggtt cgactatcat gtttttagct
11461 agagctatag tgtttgtgtg tgttgagtat taccatttgt tatttattac tggcaacacc
11521 ttacagtgtg tcatgcttgt ttattgtttc ttaggctatt gttgctgctg ctactttggc
11581 cttttctgtt tactcaaccg ttacttcagg cttactcttg gtgtttatga ctacttggtc
11641 tctacacaag aatttaggta tatgaactcc caggggcttt tgccctctaa gagtagtatt
11701 gatgctttca agcttaacat taagtgtgtg ggtattggag gtaaaccatg tatcaagggt
11761 gctactgtac agtctaaaat gtctgacgtt aagtgcacat ctgtggtact gctctcggtt
11821 cttcaacaac ttagagtaga gtcattctct aaattgtggg cacaatgtgt acaactccac
11881 aatgatattc ttcttgcaaa agacacaact gaagctttcg agaagatggt ttctcttttg
11941 tctgttttgc tatccatgca ggggtgctga gacattaata ggttggtcga ggaaatgctc
12001 gataaccgtg ctactcttca ggctattgct tcagaattta gttctttacc atcatatgcc
12061 gcttatgcca ctgcccagga ggcctatgag caggctgtag ctaatgggtg ttctgaagtc
12121 gttctcaaaa agttaagaa atctttgaat gtggctaaat ctgagtttga ccgtgatgct
12181 gccatgcaac gcaagttgga aaagatggca gatcaggcta tgacccaaat gtacaaacag
12241 gcaagatctg aggacaagag ggcaaaagta actagtgcta tgcaacaat gctcttcaat
12301 atgtctagga agcttgataa tgatgcactt aacaacatta tcaacaatgc gcgtgatggt
12361 tgtgttccac tcaacatcat accattgact acagcagcca aactcatggt tgttgtccct
12421 gattatggta cctacaagaa cacttgtgat ggtaaacact ttacatatgc atctgcactc
12481 tgggaaatcc agcaagttgt tgatgctgat agcaagattg ttcaacttag tgaaattaac
12541 atggacaatt caccaaattt ggcttggcct cttattgtta cagctctaag agccaactca
12601 gctgttaaac tacagaataa tgaactgagt ccagtagcac tacgacagat gtccgtgctg
12661 gctggtacca cacaacagc ttgtactgat gacaatgcac ttgcctacta taacaattcg
12721 aagggaggta ggtttgtgct ggcattacta tcagaccacc aagatctcaa atgggctaga
12781 ttccctaaga gtgatggtac aggtacaatt tacacagaac tggaaaccac ttgtagggtt
12841 gttacagaca caccaaaagg gcctaaagtg aaatacttgt acttcatcaa aggcctaaac
12901 aacctaaata gaggtatggt gctgggcagt ttagctgcta cagtacgtct tcaggctgga
12961 aatgctacag aagtacctgc caattcaact gtgctttcct tctgtgcttt tgcagtagac
13021 cctgctaaag catataagga ttacctagca agtggaggac aaccaatcac caactgtgtg
13081 aagatggtgt gtacacacac tggtagagga caggcaatta ctgtaacacc agaagctaac
13141 atggaccaag agtccttttg tgggtgcttca tgttgtctgt attgtagatg ccacattgac
13201 catccaaatc ctaaaggatt ctgtgacttg aaaggtaagt acgtccaaat acctaccact
13261 tgtgctaatt acccagtggt ttttacactt agaaacacag tctgtaccgt ctgcggaatg
13321 tggaaagggt atggctgtag ttgtgaccaa ctccgcgaac ccttgatgca gtctgaggat
13381 gcatcaacgt ttttaaacgg gtttgcggtg taagtgcagc ccgtcttaca ccgtgcggca

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FIG. 10 Con't

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13441	caggcactag	tactgatgtc	gtctacaggg	cttttgatat	ttacaacgaa	aaaagtgtc
13501	gttttgcaaa	gttcctaaaa	actaattgct	gtcgcttcca	ggagaaggat	gaggaaggca
13561	at ttattaga	ctcttacttt	gtagttaaga	ggcatactat	gtctaactac	caacatgaag
13621	agactattta	taacttggtt	aaagattgtc	cagcggttgc	tgtccatgac	tttttcaagt
13681	ttagagtaga	tgggtgacatg	gtaccacata	tatcacgtca	gcgtctaact	aaatacacaa
13741	tggctgattt	agtctatgct	ctacgtcatt	ttgatgaggg	taattgtgat	acattaaaag
13801	aaatactcgt	cacatacaat	tgctgtgatg	atgattattt	caataagaag	gattgggtatg
13861	acttcgtaga	gaatcctgac	atcttacgcg	tatatgctaa	cttaggtgag	cgtgtacgcc
13921	aatcattatt	aaagactgta	caattctgcg	atgctatgcg	tgatgcaggc	attgtaggcg
13981	tactgacatt	agataatcag	gatcttaatg	ggaactggta	cgatttcggg	gatttcgtac
14041	aagtagcacc	aggctgcgga	gttcctattg	tggattcata	ttactcattg	ctgatgccca
14101	tcctcacttt	gactagggca	ttggctgctg	agtcgccat	ggatgctgat	ctcgcaaaac
14161	cacttattaa	gtgggatttg	ctgaaatatg	at tt tacgga	agagagactt	tgtctcttcg
14221	accgttattt	taaatattgg	gaccagacat	accatcccaa	ttgtattaac	tgtttggatg
14281	ataggtgtat	ccttcattgt	gcaaacttta	atgtgttatt	ttctactgtg	ttccaccta
14341	caagtttttg	accactagta	agaaaaatat	ttgtagatgg	tgttcctttt	gttggtttcaa
14401	ctggatacca	ttttcgtgag	ttaggagtcg	tacataaatca	ggatgtaaac	ttacatagct
14461	cgcgtctcag	tttcaaggaa	cttttagtgt	atgctgctga	tccagctatg	catgcagctt
14521	ctggcaattt	attgctagat	aaacgcacta	catgcttttc	agtagctgca	ctaacaaaca
14581	atgttgcttt	tcaaactgtc	aaacccggtg	attttaataa	agacttttat	gactttgtctg
14641	tgtctaaagg	tttctttaag	gaagggaagt	ctgttgaaact	aaaacacttc	ttctttgtctc
14701	aggatggcaa	cgctgctatc	agtgtattatg	actattatcg	ttataatctg	ccaacaatgt
14761	gtgatatcag	acaactccta	ttcgtagtgtg	aagttgttga	taaatacttt	gattgtttacg
14821	atgggtggctg	tattaatgcc	aaccaagtaa	tcgttaacaa	tctggataaa	tcagctgggtt
14881	tcccatttaa	taaatggggg	aaggctagac	tttattatga	ctcaatgagt	tatgaggatc
14941	aagatgcact	tttcgcgtat	actaagcgtg	atgtcatccc	tactataact	caaatagaatc
15001	ttaagtatgc	cattagtgcg	aagaatagag	ctcgcaccgt	agctgggtgtc	tctatctgta
15061	gtactatgac	aaatagacag	tttcatcaga	aattattgaa	gtcaatagcc	gccactagag
15121	gagctactgt	ggtaattgga	acaagcaagt	tttacgggtg	ctggcataat	atgttaaaaa
15181	ctgttttacag	tgatgtagaa	actccacacc	ttatgggttg	ggattatcca	aaatgtgaca
15241	gagccatgcc	taacatgctt	aggataatgg	cctctcttgt	tcttgctcgc	aaacataaca
15301	cttgctgtaa	cttatcacac	cgtttctaca	ggttagctaa	cgagtgtgcg	caagtattaa
15361	gtgagatgg	catgtgtggc	ggctcactat	atgttaaacc	agggtgaaca	tcacccgggtg
15421	atgctacaac	tgcttatgct	aatagtgtct	ttaacatttg	tcaagctgtt	acagccaatg
15481	taaatgcact	tctttcaact	gatggtaata	agatagctga	caagtatgtc	cgcaatctac
15541	aacacaggct	ctatgagtgt	ctctatagaa	atagggatgt	tgatcatgaa	ttcgtggatg
15601	agtttttacgc	ttacctgcgt	aaacatttct	ccatgatgat	tctttctgat	gatgccgttg
15661	tgtgtactaa	cagtaactat	gcggctcag	gttttagtagc	tagcattaag	aactttaagg
15721	cgtttcttta	ttatcaaaat	aatgtgttca	tgtctgaggc	aaaatgttgg	acttgagactg
15781	accttactaa	aggacctcac	gaatttttgt	cacagcatac	aatgctagtt	aaacaaggag
15841	atgattacgt	gtacctgcct	taccagatc	catcaagaat	attaggcgca	ggctgttttg
15901	tcgatgatat	tgtcaaaaca	gatggtacac	ttatgattga	aagggtcgtg	tcactggcta
15961	ttgatgctta	cccacttaca	aaacatccta	atcaggagta	tgctgatgtc	tttactttgt
16021	at ttacaata	cattagaaag	ttacatgatg	agcttactgg	ccacatgttg	gacatgtatt
16081	ccgtaatgct	aactaatgat	aacacctcac	gggtactggga	acctgagttt	tatgaggcta
16141	tgtacacacc	acatacagtc	ttgcaggctg	taggtgcttg	tgtattgtgc	aattcacaga
16201	cttcacttcg	ttgcgggtgcc	tgtattagga	gaccattcct	atggtgcaag	tgtgctatg
16261	accatgtcat	ttcaacatca	cacaaattag	tgttgtctgt	taatccctat	gtttgcaatg
16321	ccccagggtg	tgatgtcact	gatgtgacac	aactgtatct	aggagggtatg	agctattatt
16381	gcaagtcaca	taagcctccc	attagttttc	cattatgtgc	taatggtcag	gtttttgggtt
16441	tatacaaaaa	cacatgtgta	ggcagtgaca	atgtcactga	cttcaatgcg	atagcaacat
16501	gtgattggac	taatgctggc	gattacatac	ttgccaacac	ttgtactgag	agactcaagc
16561	ttttcgcagc	agaaacgctc	aaagccactg	aggaaacatt	taagctgtca	tatgggtattg
16621	ccactgtacg	cgaagtactc	tctgacagag	aattgcatct	ttcatgggag	gttggaacac
16681	ctagaccacc	attgaacaga	aactatgtct	ttactgggtta	ccgtgtaact	aaaaatagta
16741	aagtacagat	tggagagtac	acctttgaaa	aagggtgacta	tgggtgatgct	gtttgtgtaca

FIG. 10 Con't

16801	gagggtactac	gacatacaag	ttgaatggtg	gtgattactt	tgtgttgaca	tctcacactg
16861	taatgccact	tagtgcacct	actctagtgc	cacaagagca	ctatgtgaga	attactggct
16921	tgtacccaac	actcaacatc	tcagatgagt	tttctagcaa	tgttgcaaat	tatcaaaagg
16981	tcggcatgca	aaagtactct	acactccaag	gaccacctgg	tactggtaag	agtcattttg
17041	ccatcggaact	tgctctctat	tacctatctg	ctcgcatagt	gtatacggca	tgctctcatg
17101	cagctggtga	tgccctatgt	gaaaaggcat	taaaatattt	gcccatagat	aatgttagta
17161	gaatcatacc	tgcgcgtgcg	cgcgtagagt	gttttgataa	attcaaagtg	aattcaacac
17221	tagaacagta	tgttttctgc	actgtaaatg	cattgccaga	aacaactgct	gacattgtag
17281	tctttgatga	aatctctatg	gctactaatt	atgacttgag	tgttgtcaat	gctagacttc
17341	gtgcaaaaca	ctacgtctat	attggcgatc	ctgctcaatt	accagccccc	cgcacattgc
17401	tgactaaagg	cacactagaa	ccagaatatt	ttaattcagt	gtgcagactt	atgaaaacaa
17461	taggtccaga	catgttcctt	ggaacttgtc	gccgttgctc	tgtgaaaatt	gttgacactg
17521	tgagtgcctt	agtttatgac	aataagctaa	aagcacacaa	ggataagtca	gctcaatgct
17581	tcaaaatggt	ctacaaagg	gttattacac	atgatgtttc	atctgcaatc	aacagacctc
17641	aaataggcgt	tgtaaagaaa	tttcttacac	gcaatcctgc	ttggagaaaa	gctgttttta
17701	tctcacctta	taattcacag	aacgctgtag	cttcaaaaat	cttaggattg	cctacgcaga
17761	ctggtgatcc	atcacagggt	tctgaatatg	actatgtcat	attcacacaa	actactgaaa
17821	cagcacactc	ttgtaatgtc	aaccgcttca	atgtggctat	cacaagggca	aaaattggca
17881	ttttgtgcat	aatgtctgat	agagatcttt	atgacaaact	gcaatttaca	agtctagaaa
17941	taccacgtcg	caatgtggct	acattacaag	cagaaaatgt	aactggactt	tttaaggact
18001	gtagtaagat	cattactggg	cttcatccta	cacaggcacc	tacacacctc	agcgttgata
18061	taaaattcaa	gactgaagga	ttatgtgttg	acataccagg	cataccaaag	gacatgacct
18121	accgtagact	catctctatg	atgggtttca	aaatgaatta	ccaagtcaat	ggttacccta
18181	atatgtttat	caccgcgcga	gaagctattc	gtcacgttcg	tgcgtggatt	ggctttgatg
18241	tagagggctg	tcatgcaact	agagatgctg	tgggtactaa	cctacctctc	cagctaggat
18301	tttctacagg	tgtaaactta	gtagctgtac	cgactgggta	tgttgacact	gaaaataaca
18361	cagaattcac	cagagttaat	gcaaaacctc	caccagggtga	ccagtttaaa	catcttatac
18421	cactcatgta	taaaggcttg	ccctggaatg	tagtgcgat	taagatagta	caaatgctca
18481	gtgatacact	gaaaggattg	tcagacagag	tcgtgttcgt	cctttgggcg	catggctttg
18541	agcttacatc	aatgaagtac	tttgtaagaa	ttggacctga	aagaacgtgt	tgtctgtgtg
18601	acaaacgtgc	aacttgcttt	tctacttcat	cagatactta	tgcctgctgg	aatcattctg
18661	tgggttttga	ctatgtctat	aacctattta	tgattgatgt	tcagcagtgg	ggctttacgg
18721	gtaaccttca	gagtaacct	gaccaacatt	gccagggtaca	tggaaatgca	catgtggcta
18781	gttgtgatgc	tatcatgact	agatgtttag	cagtccatga	gtgctttgtt	aagcgcgttg
18841	attggctctgt	tgaataacct	attataggag	atgaactgag	ggtaatttct	gcttgacaga
18901	aagtacaaca	catggttggt	aagtctgcat	tgccttgctga	taagtttcca	gttcttcatg
18961	acatttgaaa	tccaaaggct	atcaagtgtg	tgcctcaggc	tgaagttaga	tgaagtctct
19021	acgatgctca	gccatgtagt	gacaaagctt	acaaaataga	ggaactcttc	tattcttatg
19081	ctacacatca	cgataaaatt	actgatgggt	tttggtttgtt	ttggaattgt	aacgttgatc
19141	gttaccacgc	caatgcaatt	gtgtgtaggt	ttgacacaag	agtcttgctc	aacttgaact
19201	taccaggctg	tgatgggtgg	agtttgtagt	tgaataagca	tgcattccac	actccagctt
19261	tcgataaaaag	tgcatttact	aattttaaag	aattgccttt	cttttactat	tctgatagtc
19321	cttgtgagtc	tcatggcaaa	caagtagtgt	cggatattga	ttatgttcca	ctcaaatctg
19381	ctacgtgtat	tacacgatgc	aatttaggtg	gtgctgtttg	cagacaccat	gcaaatgagt
19441	accgacagta	cttggtatgca	tataatatga	tgattttctgc	tggatttagc	ctatggattt
19501	acaaacaatt	tgatacttat	aacctgtgga	atacatttac	caggttacag	agtttagaaa
19561	atgtggctta	taatgttggt	aataaaggac	actttgatgg	acacgccggc	gaagcacctg
19621	tttccatcat	taataatgct	gtttacacaa	aggtagatgg	tattgatgtg	gagatctttg
19681	aaaataagac	aacacttcct	gttaatggtg	catttgagct	ttgggctaag	cgtaacatta
19741	aaccagtgcc	agagattaag	atactcaata	atgtgggtgt	tgatatcgct	gctaatactg
19801	taatctggga	ctacaaaaga	gaagccccag	cacatgtatc	tacaataggt	gtctgcacaa
19861	tgactgacat	tgccaagaaa	cctactgaga	gtgcttggtc	ttcacttact	gtctgttttg
19921	atggtagagt	ggaaggacag	gtagaccttt	ttagaaaacgc	ccgtaatggt	gttttaataa
19981	cagaagggtc	agtcaaagg	ctaacacctt	caaaggggacc	agcacaagct	agcgtcaatg
20041	gagtcacatt	aattggagaa	tcagtaaaaa	cacagttaa	ctactttaag	aaagtagacg
20101	gcattattca	acagttgcct	gaaacctact	ttactcagag	cagagactta	gaggatttta

FIG. 10 Con't

20161	agcccgatc	acaaatggaa	actgactttc	tgcagctcgc	tatggatgaa	ttcatcacgc
20221	gatataagct	cgagggctat	gccttcgaac	acatcgttta	tggagatttc	agtcattggac
20281	aacttggcgg	tcttcattta	atgataagct	tagccaagcg	ctcacaagat	tcaccactta
20341	aattagagga	ttttatccct	atggacagca	cagtgaaaaa	ttacttcata	acagatgcgc
20401	aaacaggttc	atcaaaatgt	gtgtgttctg	tgattgatct	tttacttgat	gactttgtcg
20461	agataataaa	gtcacaagat	ttgtcagtga	tttcaaaagt	ggccaagggt	acaattgact
20521	atgctgaaat	ttcattcatg	ctttgggtga	aggatggaca	tggtgaaacc	ttctacccaa
20581	aactacaagc	aagtcaagcg	tggcaaccag	gtgttgcgat	gcctaacttg	tacaagatgc
20641	aaagaatgct	tcttgaaaag	tgtgaccttc	agaattatgg	tgaaaatgct	gttataccaa
20701	aaggaataat	gatgaatgtc	gcaaagtata	ctcaactgtg	tcaatactta	aatacactta
20761	ctttagctgt	accctacaac	atgagagtta	ttcactttgg	tgctggctct	gataaaggag
20821	ttgcaccagg	tacagctgtg	ctcagacaat	ggttgccaac	tggcacacta	cttgtcgatt
20881	cagatcttaa	tgacttcgtc	tccgacgcag	attctacttt	aattggagac	tgtgcaacag
20941	tacatacggc	taataaatgg	gaccttatta	ttagcgatat	gtatgacctt	aggaccaaac
21001	atgtgacaaa	agagaatgac	tctaaagaag	ggtttttcac	ttatctgtgt	ggatttataa
21061	agcaaaaact	agccctgggt	ggttctatag	ctgtaaagat	aacagagcat	tcttggaatg
21121	ctgaccttta	caagcttatg	ggccatttct	catggtggac	agcttttggt	acaaatgtaa
21181	atgcatcatc	atcggaagca	tttttaattg	gggctaacta	tcttggaag	ccgaaggaac
21241	aaattgatgg	ctataccatg	catgctaact	acattttctg	gaggaacaca	aatcctatcc
21301	agttgtcttc	ctattcactc	ttgacatga	gcaaatttcc	tcttaaatga	agaggaactg
21361	ctgtaattgtc	tcttaaggag	aatcaaatca	atgatatgat	ttattctctt	ctggaaaaag
21421	gtaggcttat	cattagagaa	aacaacagag	ttgtggtttc	aagtgatatt	cttgtaaca
21481	actaaacgaa	catgtttatt	ttcttattat	ttcttactct	cactagtggg	agtgcacttg
21541	accgggtgcac	cacttttgat	gatgttcaag	ctcctaatta	cactcaacat	acttcatcta
21601	tgaggggggt	ttactatcct	gatgaaattt	ttagatcaga	cactctttat	ttaactcagg
21661	atttatttct	tccattttat	tctaattgta	cagggtttca	tactattaat	catacgtttg
21721	gcaaccctgt	catacctttt	aaggatggta	tttattttgc	tgccacagag	aaatcaaatg
21781	ttgtccgtgg	ttgggttttt	ggttctacca	tgaacaacaa	gtcacagtcg	gtgattatta
21841	ttaacaattc	tactaatgtt	gttatcacag	catgtaactt	tgaattgtgt	gacaaccctt
21901	tctttgctgt	ttctaaaccc	atgggtacac	agacacatac	tatgatattc	gataatgcat
21961	ttaattgcac	tttcgagtac	atatctgatg	ccttttcgct	tgatgtttca	gaaaagtcag
22021	gtaatttttaa	acacttacga	gagtttgtgt	ttaaaaataa	agatgggttt	ctctatgttt
22081	ataagggcta	tcaacctata	gatgtagttc	gtgatctacc	ttctggtttt	aacactttga
22141	aacctatttt	taagttgcct	cttggtatta	acattacaaa	ttttagagcc	attcttacag
22201	ccttttcacc	tgctcaagac	atttggggca	cgtcagctgc	agcctatttt	gttggtattt
22261	taaagccaac	tacatttatg	ctcaagtatg	atgaaaatgg	tacaatcaca	gatgctgttg
22321	attgttctca	aaatccactt	ctggaactca	aatgctctgt	taagagcttt	gagattgaca
22381	aaggaattta	ccagacctct	aatttccagg	ttgttccctc	aggagatgtt	gtgagattcc
22441	ctaataattac	aaacttgtgt	ccttttggag	agggttttaa	tgctactaaa	ttcccttctg
22501	tctatgcatg	ggagagaaaa	aaaattttcta	attgtgttgc	tgattactct	gtgctctaca
22561	actcaacatt	tttttcaacc	tttaagtgtc	atggcgtttc	tgccactaag	ttgaatgac
22621	tttgcttctc	caatgtctat	gcagattctt	ttgtagtcaa	gggagatgat	gtaagacaaa
22681	tagcgccagg	acaaactggt	gttattgctg	attataatta	taaattgcca	gatgatttca
22741	tgggttgtgt	ccttgcttgg	aatactagga	acattgatgc	tacttcaact	ggtaattata
22801	attataaata	taggtatctt	agacatggca	agcttaggcc	ccttgagaga	gacatatcta
22861	atgtgccttt	ctccctgat	ggcaaacctt	gcaccccacc	tgctcttaat	tgttattggc
22921	cattaaatga	ttatggtttt	tacaccacta	ctggcattgg	ctaccaacct	tacagagttg
22981	tagtactttc	ttttgaactt	ttaaatgcac	cggccacggg	ttgtggacca	aaattatcca
23041	ctgaccttat	taagaaccag	tgtgtcaatt	tttaattttaa	tggactcact	ggtaggtgtg
23101	tgttaaactcc	ttcttcaaag	agatttcaac	catttcaaca	atgtggccgt	gatgtttctg
23161	atttcactga	ttccgttcga	gacctaataa	catctgaaat	attagacatt	tcaccttgct
23221	cttttggggg	tgtaagtgtg	attacacctg	gaacaaatgc	ttcatctgaa	gttgctgttc
23281	tatatcaaga	tgtaactgc	actgatgttt	ctacagcaat	tcatgcagat	caactcacac
23341	cagcttggcg	catatatctt	actggaaaca	atgtattcca	gactcaagca	ggctgtctta
23401	taggagctga	gcatgtcgac	acttcttatg	agtgcgacat	tcctattgga	gctggcattt
23461	gtgctagtta	ccatacagtt	tctttattac	gtagtactag	ccaaaaatct	attgtggctt

FIG. 10 Con't

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23521 atactatgtc tttaggtgct gatagttcaa ttgcttactc taataacacc attgctatac
23581 ctactaactt ttcaattagc attactacag aagtaatgcc tgtttctatg gctaaaacct
23641 ccgtagattg taatatgtac atctgcggag attctactga atgtgcta atgtgttctcc
23701 aatatggtag cttttgcaca caactaaatc gtgcactctc aggtattgct gctgaacagg
23761 atcgcaacac acgtgaagtg ttcgctcaag tcaaacaat gtacaaaacc ccaactttga
23821 aatatttttg tggttttaat ttttcacaaa tattacctga ccctctaaag ccaactaaga
23881 ggtcttttat tgaggacttg ctctttaata aggtgacact cgctgatgct ggcttcatga
23941 agcaatatgg cgaatgccta ggtgatatta atgctagaga tctcatttgt gcgcagaagt
24001 tcaatggact tacagtgttg ccacctctgc tcaactgatga tatgattgct gcctacactg
24061 ctgctctagt tagtggtagt gccactgctg gatggacatt tgggtctggc gctgctcttc
24121 aaataccttt tgctatgcaa atggcatata ggttcaatgg cattggagtt acccaaatg
24181 ttctctatga gaacaaaaaa caaatcgcca accaatttaa caaggcgatt agtcaaattc
24241 aagaatcact tacaacaaca tcaactgcat tgggcaagct gcaagacgtt gttaaccaga
24301 atgctcaagc attaaacaca cttgttaa acacttagctc taattttggg gcaatttcaa
24361 gtgtgctaaa tgatattcct tgcgcacttg ataaagtcca ggaggaggtta caaattgaca
24421 ggttaattac aggcagactt caaagccttc aaacctatgt aacacaacaa ctaatcaggg
24481 ctgctgaaat cagggcttct gctaattctt ctgctactaa aatgtctgag tgtgttcttg
24541 gacaatcaaa aagagttgac ttttgtggaa agggctacca ccttatgtcc tccccacaag
24601 cagccccgca tgggtgtgtc ttctacatgt tcacgtatgt gccatcccag gagaggaact
24661 tcaccacagc gccagcaatt tgtcatgaag gcaaaagcata cttccctcgt gaaggtgttt
24721 ttgtgtttta tggcacttct tgggttatta cacagaggaa cttcttttct ccacaaataa
24781 ttactacaga caatacattt gtctcaggaa attgtgatgt cgttattggc atcattaaca
24841 acacagttta tgatcctctg caacctgagc ttgactcatt caaagaagag ctggacaagt
24901 acttcaaaaa tcatacatca ccagatgttg atcttggcga catttcaggc attaacgctt
24961 ctgtcgtcaa cattcaaaaa gaaattgacc gcctcaatga ggtcgctaaa aatttaaattg
25021 aatcactcat tgaccttcaa gaattgggaa aatatgagca atatatataa tggccttggt
25081 atgtttggct cggcttcatt gctggactaa ttgccatcgt catggttaca atcttgcttt
25141 gttgcatgac tagttgttgc agttgectca aggggtgatg ctcttggtgt tcttgctgca
25201 agtttgatga ggatgactct gagccagttc tcaagggtgt caaattacat tacacataaa
25261 cgaacttatg gatttgttta tgagattttt tactcttggg tcaattactg cacagccagt
25321 aaaaattgac aatgcttctc ctgcaagtac tgttcatgct acagcaacga taccgctaca
25381 agcctcactc cctttcggat ggcttgttat tggcggttga tttcttgctg tttttcagag
25441 cgctaccaa ataatgctgc tcaataaaaag atggcagcta gccctttata agggcttcca
25501 gttcatattg aatttactgc tgctatttgt taccatctat tcacatcttt tgcttgctgc
25561 tgcaggtaag gaggcgcaat ttttgtacct ctatgccttg atatattttc tacaatgcat
25621 caacgcatgt agaattatta tgagatgttg gctttgttgg aagtgcaaat ccaagaacct
25681 attactttat gatgccaact actttgtttg ctggcacaca cataactatg actactgtat
25741 accatacaac agtgtcacag atacaattgt cgttactgaa ggtgacggca tttcaacacc
25801 aaaactcaaa gaagactacc aaattgggtg ttattctgag gataggcact cagggttaa
25861 agactatgtc gttgtacatg gctatttcac cgaagtttac taccagcttg agtctacaca
25921 aattactaca gacactggta ttgaaaatgc tacattcttc atctttaaca agcttgtaa
25981 agaccaccg aatgtgcaaa tacacacaat cgacggctct tcaggagttg ctaatccagc
26041 aatggatcca atttatgatg agccgacgac gactactagc gtgcctttgt aagcacaaga
26101 aagtgagtac gaacttatgt actcattcgt ttcggaagaa acaggtagct taatagttaa
26161 tagcgtaact ctttttcttg ctttcgtggg attcttgcta gtcacactag ccatacctac
26221 tgcgcttoga ttgtgtgcgt actgctgcaa tattgttaac gtgagtttag taaaaccaac
26281 ggtttacgtc tactcgctg ttaaaaatct gaactcttct gaaggagttc ctgatcttct
26341 ggtctaaacg aactaactat tattattatt ctgtttggaa ctttaacatt gcttatcatg
26401 gcagacaacg gtactattac cggtgaggag cttaaacacac tcctggaaca atggaacctt
26461 gtaataggtt tcctattcct agcctggatt atgttactac aatttgctta ttctaactcg
26521 aacaggtttt tgtacataat aaagcttgtt ttctctggc tcttggtggc agtaacactt
26581 gcttggtttt tgcttgctgt tgtctacaga attaatggg tgactggcgg gattgagatt
26641 gcaatggctt gtattgtagg cttgatgtgg cttagctact tcggtgcttc cttcaggctg
26701 tttgctcgta cccgctcaat gtggtcattc aaccagaaa caaacattct tctcaatgtg
26761 cctctccggg ggacaattgt gaccagaccg ctcatggaaa gtgaacttgt cattggtgct
26821 gtgatcattc gtggtcactt gcgaatggcc ggacactccc tagggcgctg tgacattaag

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FIG. 10 Con't

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26881 gacctgccaa aagagatcac tgtggctaca tcacgaacgc tttcttatta caaattagga
26941 gcgtcgagc gtgtaggcac tgattcagggt tttgctgcat acaaccgcta ccgtattgga
27001 aactataaat taaatacaga ccacgccggt agcaacgaca atattgcttt gctagtacag
27061 taagtgacaa cagatgtttc atcttgttga cttccagggtt acaatagcag agatattgat
27121 tatcattatg aggactttca ggattgctat ttggaatctt gacgttataa taagttcaat
27181 agtgagacaa ttatttaagc ctctaactaa gaagaattat tcggagttag atgatgaaga
27241 acctatggag ttagattatc cataaaacga acatgaaaat tattctcttc ctgacattga
27301 ttgtattttac atcttgcgag ctatatcact atcaggagtg tgttagaggt acgactgtac
27361 tactaaaaga accttgccca tcaggaacat acgagggcaa ttcaccattt caccctcttg
27421 ctgacaataa atttgcacta acttgcacta gcacacactt tgcttttgct tgtgctgacg
27481 gtactcgaca tacctatcag ctgctgcaa gatcagtttc accaaaactt ttcacagac
27541 aagaggaggt tcaacaagag ctctactcgc cactttttct cattgttgct gctctagtat
27601 ttttaatact ttgcttcacc attaagagaa agacagaatg aatgagctca ctttaattga
27661 cttctattttg tgcttttttag cctttctgct attccttggt ttaataatgc ttattatatt
27721 ttgggttttca ctcgaaatcc aggatctaga agaacttggt accaaagtct aaacgaacat
27781 gaaacttctc attgttttga cttgtatttc tctatgcagt tgcatatgca ctgtagtaca
27841 gcgctgtgca tctaataaac ctcatgtgct tgaagatcct tgtaaggtag aacactaggg
27901 gtaatactta tagcactgct tggtcttggt ctctaggaaa ggttttacct tttcatagat
27961 ggcacactat ggttcaaaca tgcacaccta atgttactat caactgtcaa gatccagctg
28021 gtggtgcgct tatagctagg ttgttggtacc tcatgaagg tcaccaaact gctgcattta
28081 gagcgtact tgttgtttta aataaacgaa caaatttaaaa tgtctgataa tggaccccaa
28141 tcaaaccaac gtagtgcccc ccgcattaca tttggtggac ccacagattc aactgacaat
28201 aaccagaatg gaggacgcaa tggggcaagg ccaaaacagc gccgacccca aggtttatcc
28261 aataatactg cgtcttggtt cacagctctc actcagcatg gcaaggagga acttagattc
28321 cctcgaggcc agggcggttc aatcaacacc aatagtggtc cagatgacca aattggctac
28381 taccgaagag ctacccgacg agttcggtgt ggtgacggca aaatgaaaga gctcagcccc
28441 agatggtact tctattacct aggaactggc ccagaagctt cacttcctta cggcgctaac
28501 aaagaaggca tcgtatgggt tgcaactgag ggagccttga atacacccaa agaccacatt
28561 ggcaccgca atcctaataa caatgctgcc accgtgctac aacttcctca aggaacaaca
28621 ttgccaaaag gcttctacgc agaggggaagc agaggcggca gtcaagcctc tctcgctcc
28681 tcatcacgta gtcgcggtaa ttcaagaaat tcaactcctg gcagcagtag gggaaattct
28741 cctgctcgaa tggctagcgg aggtggtgaa actgccctcg cgctattgct gctagacaga
28801 ttgaaccagc ttgagagcaa agtttctggt aaaggccaac aacaacaagg ccaaactgtc
28861 actaagaaat ctgctgctga ggcattctaaa aagcctcgcc aaaaacgtac tgccacaaaa
28921 cagtacaacg tcaactcaagc atttgggaga cgtggtccag acaaaaccca aggaaatttc
28981 ggggaccaag acctaatcag acaaggaact gattacaaac attggccgca aattgcacaa
29041 tttgctccaa gtgcctctgc attctttgga atgtcacgca ttggcatgga agtcacacct
29101 tcgggaacat ggctgactta tcatggagcc attaaattgg atgacaaaga tccacaattc
29161 aaagacaacg tcatactgct gaacaagcac attgacgcat acaaaacatt cccaccaaca
29221 gagcctaaaa aggacaaaaa gaaaaagact gatgaagctc agcctttgcc gcagagacaa
29281 aagaagcagc ccactgtgac tcttcttctt gcggctgaca tggatgattt ctccagacaa
29341 cttcaaaatt ccatgagtgg agcttctgct gattcaactc aggcataaac actcatgatg
29401 accacacaag gcagatgggc tatgtaaacg ttttcgcaat tccgtttacg atacatagtc
29461 tactcttgtg cagaatgaat tctcgtaact aaacagcaca agtaggttta gtttaactta
29521 atctcacata gcaatcttta atcaatgtgt aacattaggg aggacttgaa agagccacca
29581 cattttcatc gaggccacgc ggagtacgat cgaggggtaca gtgaataatg ctagggagag
29641 ctgcctatat ggaagagccc taatgtgtaa aattaatttt agtagtgcta tccccatgtg
29701 attttaatag cttcttagga gaatgacaaa aaaaaaaaaa aa

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FIG. 10 Con't

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1 - ATATTAGGTTTTTACCTACCCAGGAAAAAGCCAACCAACCTCGATCTCTTGTAGATCTGTT - 60
  - I L G F Y L P R K S Q P T S I S C R S V
  - Y * V F T Y P G K A N Q P R S L V D L F
  - I R F L P T Q E K P T N L D L L * I C S
61 - CTCTAAACGAACTTTAAATCTGTGTAGCTGTCGCTCGGCTGCATGCCTAGTGCACCTAC - 120
  - L * T N F K I C V A V A R L H A * C T Y
  - S K R T L K S V * L S L G C M P S A P T
  - L N E L * N L C S C R S A A C L V H L R
121 - GCAGTATAACAATAATAAATTTTACTGTCGTTGACAAGAAACGAGTAACTCGTCCCTCT - 180
  - A V * T I I N F T V V D K R V T R P S
  - Q Y K Q * * I L L S L T R N E * L V P L
  - S I N N N K F Y C R * Q E T S N S S L F
181 - TCTGCAGACTGCTTACGGTTTCGTCCTGTTGCAGTCGATCATCAGCATACCTAGGTTTC - 240
  - S A D C L R F R P C C S R S S A Y L G F
  - L Q T A Y G F V R V A V D H Q H T * V S
  - C R L L T V S S V L Q S I I S I P R F R
241 - GTCCGGGTGTGACCGAAAGGTAAGATGGAGAGCCTTGTCTTGGTGTCAACGAGAAAAACA - 300
  - V R V * P K G K M E S L V L G V N E K T
  - S G C D R K V R W R A L F L V S T R K H
  - P G V T E R * D G E P C S W C Q R E N T
301 - CACGTCCAACCTCAGTTTGCCTGTCTTCAGGTTAGAGACGTGCTAGTGCCTGGCTTCGGG - 360
  - H V Q L S L P V L Q V R D V L V R G F G
  - T S N S V C L S F R L E T C * C V A S G
  - R P T Q F A C P S G * R R A S A W L R G
361 - GACTCTGTGGAAGAGGCCCTATCGGAGGCACGTGAACACCTCAAAAATGGCACTTGTGGT - 420
  - D S V E E A L S E A R E H L K N G T C G
  - T L W K R P Y R R H V N T S K M A L V V
  - L C G R G P I G G T * T P Q K W H L W S
421 - CTAGTAGAGCTGGAAAAAGGCGTACTGCCCCAGCTTGAACAGCCCTATGTGTTTCATTA - 480
  - L V E L E K G V L P Q L E Q P Y V F I K
  - * * S W K K A Y C P S L N S P M C S L N
  - S R A G K R R T A P A * T A L C V H * T
481 - CGTTCTGATGCCTTAAGCACCAATCACGGCCACAAGGTCGTTGAGCTGGTTGCAGAAATG - 540
  - R S D A L S T N H G H K V V E L V A E M
  - V L M P * A P I T A T R S L S W L Q K W
  - F * C L K H Q S R P Q G R * A G C R N G
541 - GACGGCATTACGTACGGTCGTAGCGGTATAACACTGGGAGTACTCGTGCCACATGTGGGC - 600
  - D G I Q Y G R S G I T L G V L V P H V G
  - T A F S T V V A V * H W E Y S C H M W A
  - R H S V R S * R Y N T G S T R A T C G R
601 - GAAACCCCAATTGCATACCGCAATGTTCTTCTTCGTAAGAACGGTAATAAGGGAGCCGGT - 660
  - E T P I A Y R N V L L R K N G N K G A G
  - K P Q L H T A M F F F V R T V I R E P V
  - N P N C I P Q C S S S * E R * * G S R W
661 - GGTATAGCTATGGCATCGATCTAAAGTCTTATGACTTAGGTGACGAGCTTGGCACTGAT - 720
  - G H S Y G I D L K S Y D L G D E L G T D
  - V I A M A S I * S L M T * V T S L A L I
  - S * L W H R S K V L * L R * R A W H * S
721 - CCCATTGAAGATTATGAACAAACTGGAACACTAAGCATGGCAGTGGTGCCTCCGTGAA - 780
  - P I E D Y E Q N W N T K H G S G A L R E
  - P L K I M N K T G T L S M A V V H S V N
  - H * R L * T K L E H * A W Q W C T P * T
781 - CTCACTCGTGAGCTCAATGGAGGTGCAGTCACTCGCTATGTCGACAACAATTTCTGTGGC - 840
  - L T R E L N G G A V T R Y V D N N F C G
  - S L V S S M E V Q S L A M S T T I S V A
  - H S * A Q W R C S H S L C R Q Q F L W P

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FIG. 11

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841 - CCAGATGGGTACCCTCTTGATTGCATCAAAGATTTTCTCGCACGCGCGGGCAAGTCAATG - 900
    - P D G Y P L D C I K D F L A R A G K S M
    - Q M G T L L I A S K I F S H A R A S Q C
    - R W V P S * L H Q R F S R T R G Q V N V
901 - TGCACCTCTTTCCGAACAACCTTGATTACATCGAGTCGAAGAGAGGTGTCTACTGCTGCCGT - 960
    - C T L S E Q L D Y I E S K R G V Y C C R
    - A L F P N N L I T S S R R E V S T A A V
    - H S F R T T * L H R V E E R C L L L P *
961 - GACCATGAGCATGAAATTGCCTGGTTCACTGAGCGCTCTGATAAGAGCTACGAGCACCAG - 1020
    - D H E H E I A W F T E R S D K S Y E H Q
    - T M S M K L P G S L S A L I R A T S T R
    - P * A * N C L V H * A L * * E L R A P D
1021 - ACACCCTTCGAAATTAAGAGTGCCAAGAAATTTGACACTTTCAAAGGGGAATGCCCAAAG - 1080
    - T P F E I K S A K K F D T F K G E C P K
    - H P S K L R V P R N L T L S K G N A Q S
    - T L R N * E C Q E I * H F Q R G M P K V
1081 - TTTGTGTTTCCTCTTAACCTCAAAAGTCAAAGTCATTCAACCACGTGTTGAAAAGAAAAAG - 1140
    - F V F P L N S K V K V I Q P R V E K K K
    - L C F L L T Q K S K S F N H V L K R K R
    - C V S S * L K S Q S H S T T C * K E K D
1141 - ACTGAGGGTTTCATGGGGCGTATACGCTCTGTGTACCCTGTTGCATCTCCACAGGAGTGT - 1200
    - T E G F M G R I R S V Y P V A S P Q E C
    - L R V S W G V Y A L C T L L H L H R S V
    - * G F H G A Y T L C V P C C I S T G V *
1201 - AACAATATGCACTTGTCTACCTTGATGAAATGTAATCATTGCGATGAAGTTTCATGGCAG - 1260
    - N N M H L S T L M K C N H C D E V S W Q
    - T I C T C L P * * N V I I A M K F H G R
    - Q Y A L V Y L D E M * S L R * S F M A D
1261 - ACGTGCAGCTTTCTGAAAGCCACTTGTGAACATTGTGGCACTGAAAATTTAGTTATTGAA - 1320
    - T C D F L K A T C C E H C G T E N L V I E
    - R A T F * K P L V N I V A L K I * L L K
    - V R L S E S H L * T L W H * K F S Y * R
1321 - GGACCTACTACATGTGGGTACCTACCTACTAATGCTGTAGTGAAAATGCCATGTCCTGCC - 1380
    - G P T T C G Y L P T N A V V K M P C P A
    - D L L H V G T Y L L M L * * K C H V L P
    - T Y Y M W V P T Y * C C S E N A M S C L
1381 - TGTCAGACCCAGAGATTGGACCTGAGCATAGTGTGTCAGATTATCACAACCACTCAAAC - 1440
    - C Q D P E I G P E H S V A D Y H N H S N
    - V K T Q R L D L S I V L Q I I T T T Q T
    - S R P R D W T * A * C C R L S Q P L K H
1441 - ATTGAAACTCGACTCCGCAAGGGAGGTAGGACTAGATGTTTGGAGGCTGTGTGTTTGCC - 1500
    - I E T R L R K G G R T R C F G G C V F A
    - L K L D S A R E V G L D V L E A V C L P
    - * N S T P Q G R * D * M F W R L C V C L
1501 - TATGTTGGCTGCTATAATAAGCGTGCCTACTGGGTTTCCTCGTGCTAGTGCTGATATTGGC - 1560
    - Y V G C Y N K R A Y W V P R A S A D I G
    - M L A A I I S V P T G F L V L V L I L A
    - C W L L * * A C L L G S S C * C * Y W L
1561 - TCAGGCCATACTGGCATTACTGGTGACAATGTGGAGACCTTGAATGAGGATCTCCTTGAG - 1620
    - S G H T G I T G D N V E T L N E D L L E
    - Q A I L A L L V T M W R P * M R I S L R
    - R P Y W H Y W * Q C G D L E * G S P * D
1621 - ATACTGAGTCGTGAACGTGTTAACATTAACATTGTTGGCGATTTTCATTGGAATGAAGAG - 1680
    - I L S R E R V N I N I V G D F H L N E E
    - Y * V V N V L T L T L L A I F I * M K R
    - T E S * T C * H * H C W R F S F E * R G

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FIG. 11 Con't

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1681 - GTTGCCATCATTCTTTGGCATCTTTCTCTGCTTCTACAAGTGCCTTTATTGACACTATAAAG - 1740
    - V A I I L A S F S A S T S A F I D T I K
    - L P S F W H L S L L L Q V P L L T L * R
    - C H H F G I F L C F Y K C L Y * H Y K E
1741 - AGTCTTGATTACAAGTCTTTCAAAACCATTGTTGAGTCCTGCGGTAACATAAAGTTACC - 1800
    - S L D Y K S F K T I V E S C G N Y K V T
    - V L I T S L S K P L L S P A V T I K L P
    - S * L Q V F Q N H C * V L R * L * S Y Q
1801 - AAGGGAAAGCCCGTAAAAGGTGCTTGGAAACATTGGACAACAGAGATCAGTTTAAACACCA - 1860
    - K G K P V K G A W N I G Q Q R S V L T P
    - R E S P * K V L G T L D N R D Q F * H H
    - G K A R K R C L E H W T T E I S F N T T
1861 - CTGTGTGGTTTTCCCTCACAGGCTGCTGGTGTATCAGATCAATTTTGC GCGCACACTT - 1920
    - L C G F P S Q A A G V I R S I F A R T L
    - C V V F P H R L L V L S D Q F L R A H L
    - V W F S L T G C W C Y Q I N F C A H T *
1921 - GATGCAGCAAACCACTCAATTCCTGATTTGCAAAGAGCAGCTGTCACCATACTTGATGGT - 1980
    - D A A N H S I P D L Q R A A V T I L D G
    - M Q Q T T Q F L I C K E Q L S P Y L M V
    - C S K P L N S * F A K S S C H H T * W Y
1981 - ATTTCTGAACAGTCATTACGTCTTGTGCGACCCATGGTTTATACTTCAGACCTGCTCACC - 2040
    - I S E Q S L R L V D A M V Y T S D L L T
    - F L N S H Y V L S T P W F I L Q T C S P
    - F * T V I T S C R R H G L Y F R P A H Q
2041 - AACAGTGTCAATTATTATGGCATATGTAAGTGGTGGTCTTGTACAACAGACTTCTCAGTGG - 2100
    - N S V I I M A Y V T G G L V Q Q T S Q W
    - T V S L L W H M * L V V L Y N R L L S G
    - Q C H Y Y G I C N W W S C T T D F S V V
2101 - TTGTCTAATCTTTTGGGCACTACTGTTGAAAACTCAGGCCTATCTTTGAATGGATTGAG - 2160
    - L S N L L G T T V E K L R P I F E W I E
    - C L I F W A L L L K N S G L S L N G L R
    - V * S F G H Y C * K T Q A Y L * M D * G
2161 - GCGAACTTAGTGCAGGAGTTGAATTTCTCAAGGATGCTTGGGAGATTCTCAAATTTCTC - 2220
    - A K L S A G V E F L K D A W E I L K F L
    - R N L V Q E L N F S R M L G R F S N F S
    - E T * C R S * I S Q G C L G D S Q I S H
2221 - ATTACAGGTGTTTTTGACATCGTCAAGGGTCAAATACAGGTTGCTTCAGATAACATCAAG - 2280
    - I T G V F D I V K G Q I Q V A S D N I K
    - L Q V F L T S S R V K Y R L L Q I T S R
    - Y R C F * H R Q G S N T G C F R * H Q G
2281 - GATTGTGTAAAATGCTTCATTGATGTTGTTAACAAGGCACTCGAAATGTGCATTGATCAA - 2340
    - D C V K C F I D V V N K A L E M C I D Q
    - I V * N A S L M L L T R H S K C A L I K
    - L C K M L H * C C * Q G T R N V H * S S
2341 - GTCATATCGCTGGCGCAAAGTTGCGATCACTCAACTTAGGTGAAGTCTTCATCGCTCAA - 2400
    - V T I A G A K L R S L N L G E V F I A Q
    - S L S L A Q S C D H S T * V K S S S L K
    - H Y R W R K V A I T Q L R * S L H R S K
2401 - AGCAAGGGACTTTACCGTCAGTGATACGTGGCAAGGAGCAGCTGCAACTACTCATGCCT - 2460
    - S K G L Y R Q C I R G K E Q L Q L L M P
    - A R D F T V S V Y V A R S S C N Y S C L
    - Q G T L P S V Y T W Q G A A A T T H A S
2461 - CTTAAGGCACCAAAAGAAGTAACCTTTCTTGAAGGTGATTACATGACACAGTACTTACC - 2520
    - L K A P K E V T F L E G D S H D T V L T
    - L R H Q K K * P F L K V I H M T Q Y L P
    - * G T K R S N L S * R * F T * H S T Y L

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FIG. 11 Con't

2521 - TCTGAGGAGGTTGTTCTCAAGAACGGTGAAGCTCGAGACGCCCCGTTGATAGC - 2580
 - S E E V V L K N G E L E A L E T P V D S
 - L R R L F S R T V N S K H S R R P L I A
 - * G G C S Q E R * T R S T R D A R * * L
 2581 - TTCACAAATGGAGCTATCGTCGGCACACCAGTCTGTGTAAATGGCCTCATGCTCTTAGAG - 2640
 - F T N G A I V G T P V C V N G L M L L E
 - S Q M E L S S A H Q S V * M A S C S * R
 - H K W S Y R R H T S L C K W P H A L R D
 2641 - ATTAAGGACAAAGAACAATACTGCGCATTGTCTCCTGGTTTACTGGCTACAAACAATGTC - 2700
 - I K D K E Q Y C A L S P G L L A T N N V
 - L R T K N N T A H C L L V Y W L Q T M S
 - * G Q R T I L R I V S W F T G Y K Q C L
 2701 - TTTGCTTAAAAGGGGTGCACCAATTAAGGTGTAACCTTTGGAGAAGATACTGTTTGG - 2760
 - F R L K G G A P I K G V T F G E D T V W
 - F A * K G V H Q L K V * P L E K I L F G
 - S L K R G C T N * R C N L W R R Y C L G
 2761 - GAAGTTCAAGGTTACAAGAATGTGAGAATCACATTTGAGCTTGATGAACGTGTTGACAAA - 2820
 - E V Q G Y K N V R I T F E L D E R V D K
 - K F K V T R M * E S H L S L M N V L T K
 - S S R L Q E C E N H I * A * * T C * Q S
 2821 - GTGCTTAATGAAAAGTGCTCTGTCTACACTGTTGAATCCGGTACCGAAGTTACTGAGTTT - 2880
 - V L N E K C S V Y T V E S G T E V T E F
 - C L M K S A L S T L L N P V P K L L S L
 - A * * K V L C L H C * I R Y R S Y * V C
 2881 - GCATGTGTTGTAGCAGAGGCTGTTGTGAAGACTTTACAACCGATTTCTGATCTCCTTACC - 2940
 - A C V V A E A V V K T L Q P V S D L L T
 - H V L * Q R L L * R L Y N Q F L I S L P
 - M C C S R G C C E D F T T S F * S P Y Q
 2941 - AACATGGGTATTGATCTTGATGAGTGGAGTAGCTACATTCTACTTATTTGATGATGCT - 3000
 - N M G I D L D E W S V A T F Y L F D D A
 - T W V L I L M S G V * L H S T Y L M M L
 - H G Y * S * * V E C S Y I L L I * * C W
 3001 - GGTGAAGAAAACCTTTTCATCACGTATGTATTGTTTCTTTACCCTCCAGATGAGGAAGAA - 3060
 - G E E N F S S R M Y C S F Y P P D E E E
 - V K K T F H H V C I V P F T L Q M R K K
 - * R K L F I T Y V L F L L P S R * G R R
 3061 - GAGGACGATGCAGAGTGTGAGGAAGAAGAAATTGATGAAACCTGTGAACATGAGTACGGT - 3120
 - E D D A E C E E E I D E T C E H E Y G
 - R T M Q S V R K K K L M K P V N M S T V
 - G R C R V * G R R N * * N L * T * V R Y
 3121 - ACAGAGGATGATTATCAAGGTCTCCCTCTGGAATTTGGTGCCTCAGCTGAAACAGTTTGA - 3180
 - T E D D Y Q G L P L E F G A S A E T V R
 - Q R M I I K V S L W N L V P Q L K Q F E
 - R G * L S R S P S G I W C L S * N S S S
 3181 - GTTGAGGAAGAAGAAGAGGAAGACTGGCTGGATGATACTACTGAGCAATCAGAGATTGAG - 3240
 - V E E E E E E D W L D D T T E Q S E I E
 - L R K K R K R T G W M I L L S N Q R L S
 - * G R R R G R L A G * Y Y * A I R D * A
 3241 - CCAGAACCAGAACCTACACCTGAAGAACCAGTTAATCAGTTTACTGGTTATTTAAACTT - 3300
 - P E P E P T P E E P V N Q F T G Y L K L
 - Q N Q N L H L K N Q L I S L L V I * N L
 - R T R T Y T * R T S * S V Y W L F K T Y
 3301 - ACTGACAATGTTGCCATTAAATGTGTTGACATCGTTAAGGAGGCACAAAGTGCTAATCCT - 3360
 - T D N V A I K C V D I V K E A Q S A N P
 - L T M L P L N V L T S L R R H K V L I L
 - * Q C C H * M C * H R * G G T K C * S Y

FIG. 11 Con't

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3361 - ATGGTGATTGTAAATGCTGCTAACATACACCTGAAACATGGTGGTGGTGTAGCAGGTGCA - 3420
    - M V I V N A A N I H L K H G G G V A G A
    - W * L * M L L T Y T * N M V V V * Q V H
    - G D C K C C * H T P E T W W W C S R C T
3421 - CTCAACAAGGCAACCAATGGTGCCATGCAAAAGGAGAGTGATGATTACATTAAGCTAAAT - 3480
    - L N K A T N G A M Q K E S D D Y I K L N
    - S T R ' Q P M V P C K R R V M I T L S * M
    - Q Q G N Q W C H A K G E * * L H * A K W
3481 - GGCCCTCTTACAGTAGGAGGGTCTTGTGTTGCTTTCTGGACATAATCTTGCTAAGAAGTGT - 3540
    - G P L T V G G S C L L S G H N L A K K C
    - A L L Q * E G L V C F L D I I L L R S V
    - P S Y S R R V L F A F W T * S C * E V S
3541 - CTGCATGTTGTTGGACCTAACCTAAATGCAGGTGAGGACATCCAGCTTCTTAAGGCAGCA - 3600
    - L H V V G P N L N A G E D I Q L L K A A
    - C M L L D L T * M Q V R T S S F L R Q H
    - A C C W T * P K C R * G H P A S * G S I
3601 - TATGAAAATTTCAATTCACAGGACATCTTACTTGCACCATTGTTGTCAGCAGGCATATTT - 3660
    - Y E N F N S Q D I L L A P L L S A G I F
    - M K I S I H R T S Y L H H C C Q Q A Y L
    - * K F Q F T G H L T C T I V V S R H I W
3661 - GGTGCTAAACCACTTCAGTCTTTACAAGTGTGCGTGACAGCGTTTCGTACACAGGTTTAT - 3720
    - G A K P L Q S L Q V C V Q T V R T Q V Y
    - V L N H F S L Y K C A C R R F V H R F I
    - C * T T S V F T S V R A D G S Y T G L Y
3721 - ATTGCAAGTCAATGACAAAGCTCTTTATGAGCAGGTTGTCATGGATTATCTTGATAACCTG - 3780
    - I A V N D K A L Y E Q V V M D Y L D N L
    - L Q S M T K L F M S R L S W I I L I T *
    - C S Q * Q S S L * A G C H G L S * * P E
3781 - AAGCCTAGAGTGGAAGCACCTAAACAAGAGGCCACCAACAGAAGATTCCAAAAT - 3840
    - K P R V E A P K Q E E P P N T E D S K T
    - S L E W K H L N K R S H Q T Q K I P K L
    - A * S G S T * T R G A T K H R R F Q N *
3841 - GAGGAGAAATCTGTCGTACAGAAGCCTGTGATGTGAAGCCAAAAATTAAGGCCTGCATT - 3900
    - E E K S V V Q K P V D V K P K I K A C I
    - R R N L S Y R S L S M * S Q K L R P A L
    - G E I C R T E A C R C E A K N * G L H *
3901 - GATGAGGTTACCACAACACTGGAAGAACTAAGTTTCTTACCAATAAGTTACTCTTGT - 3960
    - D E V T T T L E E T K F L T N K L L L F
    - M R L P Q H W K K L S F L P I S Y S C L
    - * G Y H N T G R N * V S Y Q * V T L V C
3961 - GCTGATATCAATGGTAAGCTTTACCATGATTCTCAGAACATGCTTAGAGGTGAAGATATG - 4020
    - A D I N G K L Y H D S Q N M L R G E D M
    - L I S M V S F T M I L R T C L E V K I C
    - * Y Q W * A L P * F S E H A * R * R Y V
4021 - TCTTTCCTTGAGAAGGATGCACCTTACATGGTAGGTGATGTTATCACTAGTGGTGATATC - 4080
    - S F L E K D A P Y M V G D V I T S G D I
    - L S L R R M H L T W * V M L S L V V I S
    - F P * E G C T L H G R * C Y H * W * Y H
4081 - ACTTGTGTTGTAATACCCTCCAAAAGGCTGGTGGCACTACTGAGATGCTCTCAAGAGCT - 4140
    - T C V V I P S K K A G G T T E M L S R A
    - L V L * Y P P K R L V A L L R C S Q E L
    - L C C N T L Q K G W W H Y * D A L K S F
4141 - TTGAAGAAAGTGCCAGTTGATGAGTATATAACCACGTACCCTGGACAAGGATGTGCTGGT - 4200
    - L K K V P V D E Y I T T Y P G Q G C A G
    - * R K C Q L M S I * P R T L D K D V L V
    - E E S A S * * V Y N H V P W T R M C W L

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FIG. 11 Con't

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4201 - TATACACTTGAGGAAGCTAAGACTGCTCTTAAGAAATGCAAATCTGCATTTTATGTACTA - 4260
    - Y T L E E A K T A L K K C K S A F Y V L
    - I H L R K L R L L L R N A N L H F M Y Y
    - Y T * G S * D C S * E M Q I C I L C T T
4261 - CCTTCAGAAGCACCTAATGCTAAGGAAGAGATTCTAGGAACTGTATCCTGGAATTTGAGA - 4320
    - P S E A P N A K E E I L G T V S W N L R
    - L Q K H L M L R K R F * E L Y P G I * E
    - F R S T * C * G R D S R N C I L E F E R
4321 - GAAATGCTTGCTCATGCTGAAGAGACAAGAAAATTAATGCCTATATGCATGGATGTTAGA - 4380
    - E M L A H A E E T R K L M P I C M D V R
    - K C L L M L K R Q E N * C L Y A W M L E
    - N A C S C * R D K K I N A Y M H G C * S
4381 - GCCATAATGGCAACCATCCAACGTAAGTATAAAGGAATTAAAATTCAAGAGGGCATCGTT - 4440
    - A I M A T I Q R K Y K G I K I Q E G I V
    - P * W Q P S N V S I K E L K F K R A S L
    - H N G N H . P T * V * R N * N S R G H R *
4441 - GACTATGGTGTCCGATTCTTCTTTTATACTAGTAAAGAGCCTGTAGCTTCTATTATTACG - 4500
    - D Y G V R F F F Y T S K E P V A S I I T
    - T M V S D S S F I L V K S L * L L L L R
    - L W C P I L L L Y * * R A C S F Y Y Y E
4501 - AAGCTGAAGTCTCTAAATGAGCCGCTTGTCACAATGCCAATTGGTTATGTGACACATGGT - 4560
    - K L N S L N E P L V T M P I G Y V T H G
    - S * T L * M S R L S Q C Q L V M * H M V
    - A E L S K * A A C H N A N W L C D T W F
4561 - TTTAATCTTGAAGAGGCTGCGCGCTGTATGCGTTCTCTTAAAGCTCCTGCCGTAGTGTCA - 4620
    - F N L E E A A R C M R S L K A P A V V S
    - L I L K R L R A V C V L L K L L P * C Q
    - * S * R G C A L Y A F S * S S C R S V S
4621 - GTATCATCACCAGATGCTGTTACTACATATAATGGATACCTCACTTCGTCATCAAGACA - 4680
    - V S S P D A V T T Y N G Y L T S S S K T
    - Y H H Q M L L L H I M D T S L R H Q R H
    - I I T R C C Y Y I * W I P H F V I K D I
4681 - TCTGAGGAGCACTTTGTAGAAACAGTTTCTTTGGCTGGCTCTTACAGAGATTGGTCCTAT - 4740
    - S E E H F V E T V S L A G S Y R D W S Y
    - L R S T L * K Q F L W L A L T E I G P I
    - * G A L C R N S F F G W L L Q R L V L F
4741 - TCAGGACAGCGTACAGAGTTAGGTGTTGAATTTCTTAAGCGTGGTGACAAAATTGTGTAC - 4800
    - S G Q R T E L G V E F L K R G D K I V Y
    - Q D S V Q S * V L N F L S V V T K L C T
    - R T A Y R V R C * I S * A W * Q N C V P
4801 - CACACTCTGGAGAGCCCCGTCGAGTTTCATCTTGACGGTGAGGTTCTTTCACTTGACAAA - 4860
    - H T L E S P V E F H L D G E V L S L D K
    - T L W R A P S S F I L T V R F F H L T N
    - H S G E P R R V S S * R * G S F T * Q T
4861 - CTAAAGAGTCTCTTATCCCTGCGGGAGGTTAAGACTATAAAAAGTGTTCACAACTGTGGAC - 4920
    - L K S L L S L R E V K T I K V F T T V D
    - * R V S Y P C G R L R L * K C S Q L W T
    - K E S L I P A G G * D Y K S V H N C G Q
4921 - AACACTAATCTCCACACACAGCTTGTGGATATGTCTATGACATATGGACAGCAGTTTGGT - 4980
    - N T N L H T Q L V D M S M T Y G Q Q F G
    - T L I S T H S L W I C L * H M D S S L V
    - H * S P H T A C G Y V Y D I W T A V W S
4981 - CCAACATACTTGGATGGTGCTGATGTTACAAAAATTAACCTCATGTAAATCATGAGGGT - 5040
    - P T Y L D G A D V T K I K P H V N H E G
    - Q H T W M V L M L Q K L N L M * I M R V
    - N I L G W C * C Y K N * T S C K S * G *

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FIG. 11 Con't

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5041 - AAGACTTTCTTTGTACTACCTAGTGATGACACACTACGTAGTGAAGCTTTTCGAGTACTAC - 5100
      - K T F F V L P S D D T L R S E A F E Y Y
      - R L S L Y Y L V M T H Y V V K L S S T T
      - D F L C T T * * * H T T * * S F R V L P
5101 - CATACTCTTGATGAGAGTTTTCTTGGTAGGTACATGTCTGCTTTAAACCACACAAAGAAA - 5160
      - H T L D E S F L G R Y M S A L N H T K K
      - I L L M R V F L V G T C L L * T T Q R N
      - Y S * * E F S W * V H V C F K P H K E M
5161 - TGGAAATTTCTCAAGTTGGTGGTTTAACTTCAATTAAATGGGCTGATAACAATTGTTAT - 5220
      - W K F P Q V G G L T S I K W A D N N C Y
      - G N F L K L V V * L Q L N G L I T I V I
      - E I S S S W W F N F N * M G * * Q L L F
5221 - TTGTCTAGTGTTTTATTAGCACTTCAACAGCTTGAAGTCAAATTCAATGCACCAGCACTT - 5280
      - L S S V L L A L Q Q L E V K F N A P A L
      - C L V F Y * H F N S L K S N S M H Q H F
      - V * C F I S T S T A * S Q I Q C T S T S
5281 - CAAGAGGCTTATTATAGAGCCCGTGCTGGTGATGCTGCTAACTTTTGTGCACTCATACTC - 5340
      - Q E A Y Y R A R A G D A A N F C A L I L
      - K R L I I E P V L V M L L T F V H S Y S
      - R G L L * S P C W * C C * L L C T H T R
5341 - GCTTACAGTAATAAACTGTTGGCGAGCTTGGTGATGTCAGAGAACTATGACCCATCTT - 5400
      - A Y S N K T V G E L G D V R E T M T H L
      - L T V I K L L A S L V M S E K L * P I F
      - L Q * * N C W R A W * C Q R N Y D P S S
5401 - CTACAGCATGCTAATTTGGAATCTGCAAAGCGAGTTCTTAATGTGGTGTGTAAACATTGT - 5460
      - L Q H A N L E S A K R V L N V V C K H C
      - Y S M L I W N L Q S E F L M W C V N I V
      - T A C * F G I C K A S S * C G V * T L W
5461 - GGTCAAGAACTACTACCTTAACGGGTGTAGAAGCTGTGATGTATATGGGTACTCTATCT - 5520
      - G Q K T T T L T G V E A V M Y M G T L S
      - V R K L L P * R V * K L * C I W V L Y L
      - S E N Y Y L N G C R S C D V Y G Y S I L
5521 - TATGATAATCTTAAGACAGGTGTTTCCATTCCATGTGTGTGTGGTCGTGATGCTACACAA - 5580
      - Y D N L K T G V S I P C V C G R D A T Q
      - M I I L R Q V F P F H V C V V V M L H N
      - * * S * D R C F H S M C V W S * C Y T I
5581 - TATCTAGTACAACAAGAGTCTTCTTTTGTATGATGTCTGCACCACCTGCTGAGTATAAA - 5640
      - Y L V Q Q E S S F V M M S A P P A E Y K
      - I * Y N K S L L L L * C L H H L L S I N
      - S S T T R V F F C Y D V C T T C * V * I
5641 - TTACAGCAAGGTACATTCTTATGTGCGAATGAGTACACTGGTAACTATCAGTGTGGTCAT - 5700
      - L Q Q G T F L C A N E Y T G N Y Q C G H
      - Y S K V H S Y V R M S T L V T I S V V I
      - T A R Y I L M C E * V H W * L S V W S L
5701 - TACACTCATATAACTGCTAAGGAGACCCTCTATCGTATTGACGGAGCTCACCTTACAAAG - 5760
      - Y T H I T A K E T L Y R I D G A H L T K
      - T L I * L L R R P S I V L T E L T L Q R
      - H S Y N C * G D P L S Y * R S S P Y K D
5761 - ATGTCAGAGTACAAAGGACCAAGTACTGATGTTTTCTACAAGGAAACATCTTACACTACA - 5820
      - M S E Y K G P V T D V F Y K E T S Y T T
      - C Q S T K D Q * L M F S T R K H L T L Q
      - V R V Q R T S D * C F L Q G N I L H Y N
5821 - ACCATCAAGCCTGTGTCGTATAAACTCGATGGAGTTACTTACACAGAGATTGAACCAAAA - 5880
      - T I K P V S Y K L D G V T Y T E I E P K
      - P S S L C R I N S M E L L T Q R L N Q N
      - H Q A C V V * T R W S Y L H R D * T K I

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FIG. 11 Con't

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5881 - TTGGATGGGTATTATAAAAAAGGATAATGCTTACTATACAGAGCAGCCTATAGACCTTGTA - 5940
- L D G Y Y K K D N A Y Y T E Q P I D L V
- W M G I I K R I M L T I Q S S L * T L Y
- G W V L * K G * C L L Y R A A Y R P C T
5941 - CCAACTCAACCATTACCAAATGCGAGTTTTGATAATTTCAAACCTCACATGTTCTAACACA - 6000
- P T Q P L P N A S F D N F K L T C S N T
- Q L N H Y Q M R V L I I S N S H V L T Q
- N S T I T K C E F * * F Q T H M F * H K
6001 - AAATTTGCTGATGATTTAAATCAAATGACAGGCTTCACAAAGCCAGCTTCACGAGAGCTA - 6060
- K F A D D L N Q M T G F T K P A S R E L
- N L L M I * I K * Q A S Q S Q L H E S Y
- I C * * F K S N D R L H K A S F T R A I
6061 - TCTGTCACATTCTTCCCAGACTTGAATGGCGATGTAGTGGCTATTGACTATAGACACTAT - 6120
- S V T F F P D L N G D V V A I D Y R H Y
- L S H S S Q T * M A M * W L L T I D T I
- C H I L P R L E W R C S G Y * L * T L F
6121 - TCAGCGAGTTTCAAGAAAGGTGCTAAATTACTGCATAAGCCAATTGTTTGGCACATTAAC - 6180
- S A S F K K G A K L L H K P I V W H I N
- Q R V S R K V L N Y C I S Q L F G T L T
- S E F Q E R C * I T A * A N C L A H * P
6181 - CAGGCTACAACCAAGACAACGTTCAAACCAAACACTTGGTGTTTACGTTGTCTTTGGAGT - 6240
- Q A T T K T T F K P N T W C L R C L W S
- R L Q P R Q R S N Q T L G V Y V V F G V
- G Y N Q D N V Q T K H L V F T L S L E Y
6241 - ACAAAGCCAGTAGATACTTCAAATTCATTTGAAGTTCTGGCAGTAGAAGACACACAAGGA - 6300
- T K P V D T S N S F E V L A V E D T Q G
- Q S Q * I L Q I H L K F W Q * K T H K E
- K A S R Y F K F I * S S G S R R H T R N
6301 - ATGGACAATCTTGCTTGTGAAAGTCAACAACCCACCTCTGAAGAAGTAGTGGAAAATCCT - 6360
- M D N L A C E S Q Q P T S E E V V E N P
- W T I L L V K V N N P P L K K * W K I L
- G Q S C L * K S T T H L * R S S G K S Y
6361 - ACCATACAGAAGGAAGTCATAGAGTGTGACGTGAAAACCTACCGAAGTTGTAGGCAATGTC - 6420
- T I Q K E V I E C D V K T T E V V G N V
- P Y R R K S * S V T * K L P K L * A M S
- H T E G S H R V * R E N Y R S C R Q C H
6421 - ATACTTAAACCATCAGATGAAGGTGTTAAAGTAACACAAGAGTTAGGTCATGAGGATCTT - 6480
- I L K P S D E G V K V T Q E L G H E D L
- Y L N H Q M K V L K * H K S * V M R I L
- T * T I R * R C * S N T R V R S * G S Y
6481 - ATGGCTGCTTATGTGGAAAACACAAGCATTACCATTAAGAAACCTAATGAGCTTTCACTA - 6540
- M A A Y V E N T S I T I K K P N E L S L
- W L L M W K T Q A L P L R N L M S F H *
- G C L C G K H K H Y H * E T * * A F T S
6541 - GCCTTAGGTTTAAAAACAATTGCCACTCATGGTATTGCTGCAATTAATAGTGTTCCTTGG - 6600
- A L G L K T I A T H G I A A I N S V P W
- P * V * K Q L P L M V L L Q L I V F L G
- L R F K N N C H S W Y C C N * * C S L E
6601 - AGTAAAATTTTGGCTTATGTCAAACCATCTTAGGACAAGCAGCAATTACAACATCAAAT - 6660
- S K I L A Y V K P F L G Q A A I T T S N
- V K F W L M S N H S * D K Q Q L Q H Q I
- * N F G L C Q T I L R T S S N Y N I K L
6661 - TGCGCTAAGAGATTAGCACAAACGTGTGTTTAAACAATTATATGCCTTATGTGTTTACATTA - 6720
- C A K R L A Q R V F N N Y M P Y V F T L
- A L R D * H N V C L T I I C L M C L H Y
- R * E I S T T C V * Q L Y A L C V Y I I

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FIG. 11 Con't

6721 - TTGTTCCAATTGTGTACTTTTACTAAAAAGTACCAATTCTAGAATTAGAGCTTCACTACCT - 6780
 - L F Q L C T F T K S T N S R I R A S L P
 - C S N C V L L L K V P I L E L E L H Y L
 - V P I V Y F Y * K Y Q F * N * S F T T Y
 6781 - ACAACTATTGCTAAAAATAGTGTTAAGAGTGTTGCTAAATTATGTTTGGATGCCGGCATT - 6840
 - T T I A K N S V K S V A K L C L D A G I
 - Q L L L K I V L R V L L N Y V W M P A L
 - N Y C * K * C * E C C * I M F G C R H *
 6841 - AATTATGTGAAGTCACCCAAATTTTCTAAATTGTTTACCAATCGCTATGTGGCTATTGTTG - 6900
 - N Y V K S P K F S K L F T I A M W L L L
 - I M * S H P N F L N C S Q S L C G Y C C
 - L C E V T Q I F * I V H N R Y V A I V V
 6901 - TTAAGTATTTGCTTAGGTTCTCTAATCTGTGTAAGTCTGCTTTTGGTGTACTCTTATCT - 6960
 - L S I C L G S L I C V T A A F G V L L S
 - * V F A * V L * S V * L L L L V Y S Y L
 - K Y L L R F S N L C N C C F W C T L I *
 6961 - AATTTTGGTGTCTCCTTCTTATTGTAATGGCGTTAGAGAATTGTATCTTAATTCGTCTAAC - 7020
 - N F G A P S Y C N G V R E L Y L N S S N
 - I L V L L L I V M A L E N C I L I R L T
 - F W C S F L L * W R * R I V S * F V * R
 7021 - GTTACTACTATGGATTTCTGTGAAGGTTCTTTTCTTGCAGCATTGTGTTAAGTGGATTA - 7080
 - V T T M D F C E G S F P C S I C L S G L
 - L L L W I S V K V L F L A A F V * V D *
 - Y Y Y G F L * R F F S L Q H L F K W I R
 7081 - GACTCCCTTGATTCTTATCCAGCTCTTGAAACCATTTCAGGTGACGATTTTCATCGTACAAG - 7140
 - D S L D S Y P A L E T I Q V T I S S Y K
 - T P L I L I Q L L K P F R * R F H R T S
 - L P * F L S S S * N H S G D D F I V Q A
 7141 - CTAGACTTGACAATTTTAGGTCTGGCCGCTGAGTGGGTTTGGCATATATGTTGTTTACA - 7200
 - L D L T I L G L A A E W V L A Y M L F T
 - * T * Q F * V W P L S G F W H I C C S Q
 - R L D N F R S G R * V G F G I Y V V H K
 7201 - AAATTCCTTTTATTTATTAGGTCTTTTTCAGCTATAATGCAGGTGTTCTTTGGCTATTTTGCT - 7260
 - K F F Y L L G L S A I M Q V F F G Y F A
 - N S F I Y * V F Q L * C R C S L A I L L
 - I L L F I R S F S Y N A G V L W L F C *
 7261 - AGTCATTTTCATCAGCAATTCTTGGCTCATGTGGTTTATCATTAGTATTGTACAAATGGCA - 7320
 - S H F I S N S W L M W F I I S I V Q M A
 - V I S S A I L G S C G L S L V L Y K W H
 - S F H Q Q F L A H V V Y H * Y C T N G T
 7321 - CCCGTTTCTGCAATGGTTAGGATGTACATCTTCTTTGCTTCTTTCTACTACATATGGAAG - 7380
 - P V S A M V R M Y I F F A S F Y Y I W K
 - P F L Q W L G C T S S L L L S T T Y G R
 - R F C N G * D V H L L C F F L L H M E E
 7381 - AGCTATGTTTCATATCATGGATGGTTGCACCTCTTCGACTTGCATGATGTGCTATAAGCGC - 7440
 - S Y V H I M D G C T S S T C M M C Y K R
 - A M F I S W M V A P L R L A * C A I S A
 - L C S Y H G W L H L F D L H D V L * A Q
 7441 - AATCGTGCCACACGCGTTGAGTGTAACAATTGTTAATGGCATGAAGAGATCTTTCTAT - 7500
 - N R A T R V E C T T I V N G M K R S F Y
 - I V P H A L S V Q L L L M A * R D L S M
 - S C H T R * V Y N Y C * W H E E I F L C
 7501 - GTCTATGCAAATGGAGGCCGTTGGCTTCTGCAAGACTCACAATTGGAATTGTCTCAATTGT - 7560
 - V Y A N G G R G F C K T H N W N C L N C
 - S M Q M E A V A S A R L T I G I V S I V
 - L C K W R P W L L Q D S Q L E L S Q L *

FIG. 11 Con't

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7561 - GACACATTTTGCCTGCTAGTACATTCATTAGTGATGAAGTTGCTCGTGATTGTCACTC - 7620
    - D T F C T G S T F I S D E V A R D L S L
    - T H F A L V V H S L V M K L L V I C H S
    - H I L H W * Y I H * * * S C S * F V T P
7621 - CAGTTTAAAAGACCAATCAACCCTACTGACCAGTCATCGTATATTGTTGATAGTGTGCT - 7680
    - Q F K R P I N P T D Q S S Y I V D S V A
    - S L K D Q S T L L T S H R I L L I V L L
    - V * K T N Q P Y * P V I V Y C * * C C C
7681 - GTGAAAAATGGCGCGCTTCACCTCTACTTTGACAAGGCTGGTCAAAAGACCTATGAGAGA - 7740
    - V K N G A L H L Y F D K A G Q K T Y E R
    - * K M A R F T S T L T R L V K R P M R D
    - E K W R A S P L L * Q G W S K D L * E T
7741 - CATCCGCTCTCCCATTTTGTCAATTTAGACAATTTGAGAGCTAACAACACTAAAGGTTCA - 7800
    - H P L S H F V N L D N L R A N N T K G S
    - I R S P I L S I * T I * E L T T L K V H
    - S A L P F C Q F R Q F E S * Q H * R F T
7801 - CTGCCTATTAATGTCATAGTTTTTGATGGCAAGTCCAAATGCGACGAGTCTGCTTCTAAG - 7860
    - L P I N V I V F D G K S K C D E S A S K
    - C L L M S * F L M A S P N A T S L L L S
    - A Y * C H S F * W Q V Q M R R V C F * V
7861 - TCTGCTTCTGTGTACTACAGTCAGCTGATGTGCCAACCTATTCTGTTGCTTGACCAAGCT - 7920
    - S A S V Y Y S Q L M C Q P I L L L D Q A
    - L L L C T T V S * C A N L F C C L T K L
    - C F C V L Q S A D V P T Y S V A * P S S
7921 - CTTGTATCAAACGTTGGAGATAGTACTGAAGTTCCGTTAAGATGTTTGATGCTTATGTC - 7980
    - L V S N V G D S T E V S V K M F D A Y V
    - L Y Q T L E I V L K F P L R C L M L M S
    - C I K R W R * Y * S F R * D V * C L C R
7981 - GACACCTTTTCAGCAACTTTTAGTTCCTATGGAAAACTTAAGGCAGTTAGTTGCTACA - 8040
    - D T F S A T F S V P M E K L K A L V A T
    - T P F Q Q L L V F L W K N L R H L L L Q
    - H L F S N F * C S Y G K T * G T C C Y S
8041 - GCTCACAGCGAGTTAGCAAAGGGTGTAGCTTTAGATGGTGTCTTTCTACATTCGTGTCA - 8100
    - A H S E L A K G V A L D G V L S T F V S
    - L T A S * Q R V * L * M V S F L H S C Q
    - S Q R V S K G C S F R W C P F Y I R V S
8101 - GCTGCCCGACAAGGTGTTGTTGATACCGATGTTGACACAAAGGATGTTATTGAATGTCTC - 8160
    - A A R Q G V V D T D V D T K D V I E C L
    - L P D K V L L I P M L T Q R M L L N V S
    - C P T R C C * Y R C * H K G C Y * M S Q
8161 - AAACCTTTCACATCACTCTGACTTAGAAGTGACAGGTGACAGTTGTAACAATTTTCATGCTC - 8220
    - K L S H H S D L E V T G D S C N N F M L
    - N F H I T L T * K * Q V T V V T I S C S
    - T F T S L * L R S D R * Q L * Q F H A H
8221 - ACCTATAATAAGGTTGAAAACATGACGCCCAGAGATCTTGGCGCATGTATTGACTGTAAT - 8280
    - T Y N K V E N M T P R D L G A C I D C N
    - P I I R L K T * R P E I L A H V L T V M
    - L * * G * K H D A Q R S W R M Y * L * C
8281 - GCAAGGCATATCAATGCCCAAGTAGCAAAAAGTCACAATGTTTCACTCATCTGGAATGTA - 8340
    - A R H I N A Q V A K S H N V S L I W N V
    - Q G I S M P K * Q K V T M F H S S G M *
    - K A Y Q C P S S K K S Q C F T H L E C K
8341 - AAAGACTACATGTCTTTATCTGAACAGCTGCGTAAACAAATTCGTACTGCTGCCAAGAAG - 8400
    - K D Y M S L S E Q L R K Q I R T A A K K
    - K T T C L Y L N S C V N K F V L L P R R
    - R L H V F I * T A A * T N S Y C C Q E E

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FIG. 11 Con't

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8401 - AACAAACATACCTTTTACACTAACTTGTGCTACAACACTAGACAGGTTGTCAATGTCATAACT - 8460
      - N N I P F T L T C A T T R Q V V N V I T
      - T T Y L L H * L V L Q L D R L S M S * L
      - Q H T F Y T N L C Y N * T G C Q C H N Y
8461 - ACTAAAATCTCACTCAAGGGTGGTAAGATTGTTAGTACTTGTTTTAAACTTATGCTTAAG - 8520
      - T K I S L K G G K I V S T C F K L M L K
      - L K S H S R V V R L L V L V L N L C L R
      - * N L T Q G W * D C * Y L F * T Y A * G
8521 - GCCACATTATTGTGCGTTCTTGCTGCATTGGTTTGTATATCGTTATGCCAGTACATACA - 8580
      - A T L L C V L A A L V C Y I V M P V H T
      - P H Y C A F L L H W F V I S L C Q Y I H
      - H I I V R S C C I G L L Y R Y A S T Y I
8581 - TTGTCAATCCATGATGGTTACACAAATGAAATCATGGTTACAAAGCCATTACAGGATGGT - 8640
      - L S I H D G Y T N E I I G Y K A I Q D G
      - C Q S M M V T Q M K S L V T K P F R M V
      - V N P * W L H K * N H W L Q S H S G W C
8641 - GTCACCTCGTGACATCATTTCTACTGATGATTGTTTTCGAAATAAACATGCTGGTTTTGAC - 8700
      - V T R D I I S T D D C F A N K H A G F D
      - S L V T S F L L M I V L Q I N M L V L T
      - H S * H H F Y * * L F C K * T C W F * R
8701 - GCATGGTTTTAGCCAGCGTGGTGGTTCATACAAAAATGACAAAAGCTGCCCTGTAGTAGCT - 8760
      - A W F S Q R G G S Y K N D K S C P V V A
      - H G L A S V V V H T K M T K A A L * * L
      - M V * P A W W F I Q K * Q K L P C S S C
8761 - GCTATCATTACAAGAGAGATTGGTTTCATAGTGCCTGGCTTACCGGGTACTGTGCTGAGA - 8820
      - A I I T R E I G F I V P G L P G T V L R
      - L S L Q E R L V S * C L A Y R V L C * E
      - Y H Y K R D W F H S A W L T G Y C A E S
8821 - GCAATCAATGGTGACTTCTTGCAATTTCTACCTCGTGTGTTTTAGTGCTGTTGGCAACATT - 8880
      - A I N G D F L H F L P R V F S A V G N I
      - Q S M V T S C I F Y L V F L V L L A T F
      - N Q W * L L A F S T S C F * C C W Q H L
8881 - TGCTACACACCTTCCAAACTCATTGAGTATAGTGATTTTGCTACCTCTGCTTGCCTTCTT - 8940
      - C Y T P S K L I E Y S D F A T S A C V L
      - A T H L P N S L S I V I L L P L L A F L
      - L H T F Q T H * V * * F C Y L C L R S C
8941 - GCTGCTGAGTGTACAATTTTAAAGATGCTATGGGCAAACCTGTGCCATATTGTTATGAC - 9000
      - A A E C T I F K D A M G K P V P Y C Y D
      - L L S V Q F L R M L W A N L C H I V M T
      - C * V Y N F * G C Y G Q T C A I L L * H
9001 - ACTAATTTGCTAGAGGGTCTATTTCTTATAGTGAGCTTCGTCCAGACACTCGTTATGTG - 9060
      - T N L L E G S I S Y S E L R P D T R Y V
      - L I C * R V L F L I V S F V Q T L V M C
      - * F A R G F Y F L * * A S S R H S L C A
9061 - CTTATGGATGGTTCATCATAAGTTTCTAACACTTACCTGGAGGGTCTGTAGAGTA - 9120
      - L M D G S I I Q F P N T Y L E G S V R V
      - L W M V P S Y S F L T L T W R V L L E *
      - Y G W F H H T V S * H L P G G F C * S S
9121 - GTAACAACTTTTGATGCTGAGTACTGTAGACATGGTACATGCGAAAGGTCAGAAGTAGGT - 9180
      - V T T F D A E Y C R H G T C E R S E V G
      - * Q L L M L S T V D M V H A K G Q K * V
      - N N F * C * V L * T W Y M R K V R S R Y
9181 - ATTTGCCTATCTACCAGTGGTAGATGGGTTCTTAATAATGAGCATTACAGAGCTCTATCA - 9240
      - I C L S T S G R W V L N N E H Y R A L S
      - F A Y L P V V D G F L I M S I T E L Y Q
      - L P I Y Q W * M G S * * * A L Q S S I R

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FIG. 11 Con't

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9241 - GGAGTTTTCTGTGGTGTGATGCGATGAATCTCATAGCTAACATCTTTACTCCTCTTGTG - 9300
    - G V F C G V D A M N L I A N I F T P L V
    - E F S V V L M R * I S * L T S L L L L C
    - S F L W C * C D E S H S * H L Y S S C A
9301 - CAACCTGTGGGTGCTTTAGATGTGTCTGCTTCAGTAGTGGCTGGTGGTATTATTGCCATA - 9360
    - Q P V G A L D V S A S V V A G G I I A I
    - N L W V L * M C L L Q * W L V V L L P Y
    - T C G C F R C V C F S S G W W Y Y C H I
9361 - TTGGTGACTTGTGCTGCCTACTACTTTATGAAATTCAGACGTGTTTTGGTGAGTACAAC - 9420
    - L V T C A A Y Y F M K F R R V F G E Y N
    - W * L V L P T T L * N S D V F L V S T T
    - G D L C C L L L Y E I Q T C F W * V Q P
9421 - CATGTTGTTGCTGCTAATGCACTTTTGTGTTTGTGATGTCTTTCATACTCTGTCTGGTA - 9480
    - H V V A A N A L L F L M S F T I L C L V
    - M L L L L M H F C F * C L S L Y S V W Y
    - C C C C * C T F V F D V F H Y T L S G T
9481 - CCAGCTTACAGCTTTCTGCCGGGAGTCTACTCAGTCTTTTACTTGTACTTGACATTCTAT - 9540
    - P A Y S F L P G V Y S V F Y L Y L T F Y
    - Q L T A F C R E S T Q S F T C T * H S I
    - S L Q L S A G S L L S L L L V L D I L F
9541 - TTCACCAATGATGTTTCATTCTTGGCTCACCTTCAATGGTTTGCCATGTTTTCTCCTATT - 9600
    - F T N D V S F L A H L Q W F A M F S P I
    - S P M M F H S W L T F N G L P C F L L L
    - H Q * C F I L G S P S M V C H V F S Y C
9601 - GTGCCTTTTTGGATAACAGCAATCTATGTATTCTGTATTTCTCTGAAGCACTGCCATTGG - 9660
    - V P F W I T A I Y V F C I S L K H C H W
    - C L F G * Q Q S M Y S V F L * S T A I G
    - A F L D N S N L C I L Y F S E A L P L V
9661 - TTCTTTAACAATACTCTTAGGAAAAGAGTCATGTTAATGGAGTTACATTTAGTACCTTC - 9720
    - F F N N Y L R K R V M F N G V T F S T F
    - S L T T I L G K E S C L M E L H L V P S
    - L * Q L S * E K S H V * W S Y I * Y L R
9721 - GAGGAGGCTGCTTTGTGTACCTTTTTGCTCAACAAGGAAATGTACCTAAAATTGCGTAGC - 9780
    - E E A A L C T F L L N K E M Y L K L R S
    - R R L L C V P F C S T R K C T * N C V A
    - G G C F V Y L F A Q Q G N V P K I A * R
9781 - GAGACACTGTTGCCACTTACACAGTATAACAGGTACTTGCTCTATATAACAAGTACAAG - 9840
    - E T L L P L T Q Y N R Y L A L Y N K Y K
    - R H C C H L H S I T G I L L Y I T S T S
    - D T V A T Y T V * Q V S C S I * Q V Q V
9841 - TATTTCAAGTGGAGCCTTAGATACTACCAGCTATCGTGAAGCAGCTTGCTGCCACTTAGCA - 9900
    - Y F S G A L D T T S Y R E A A C C H L A
    - I S V E P * I L P A I V K Q L A A T * Q
    - F Q W S L R Y Y Q L S * S S L L P L S K
9901 - AAGGCTCTAAATGACTTTAGCAACTCAGGTGCTGATGTTCTCTACCAACCACCACAGACA - 9960
    - K A L N D F S N S G A D V L Y Q P P Q T
    - R L * M T L A T Q V L M F S T N H R H
    - G S K * L * Q L R C * C S L P T T T D I
9961 - TCAATCACTTCTGCTGTTCTGCAGAGTGGTTTTAGGAAAATGGCATTCCCCTCAGGCAAA - 10020
    - S I T S A V L Q S G F R K M A F P S G K
    - Q S L L L F C R V V L G K W H S R Q A K
    - N H F C C S A E W F * E N G I P V R Q S
10021 - GTTGAAGGGTGCATGGTACAAGTAACCTGTGGAACACAACCTTAATGGATTGTGGTTG - 10080
    - V E G C M V Q V T C G T T T L N G L W L
    - L K G A W Y K * P V E L Q L L M D C G W
    - * R V H G T S N L W N Y N S * W I V V G

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FIG. 11 Con't

10081 - GATGACACAGTATACTGTCCAAGACATGTCATTTGCACAGCAGAAGACATGCTTAATCCT - 10140
 - D D T V Y C P R H V I C T A E D M L N P
 - M T Q Y T V Q D M S F A Q Q K T C L I L
 - * H S I L S K T C H L H S R R H A * S *
 10141 - AACTATGAAGATCTGCTCATTGCGAAATCCAACCATAGCTTTCTTGTTGAGGCTGGCAAT - 10200
 - N Y E D L L I R K S N H S F L V Q A G N
 - T M K I C S F A N P T I A F L F R L A M
 - L * R S A H S Q I Q P * L S C S G W Q C
 10201 - GTTCAACTTCGTGTTATTGGCCATTCTATGCAAAATTGTCTGCTTAGGCTTAAAGTTGAT - 10260
 - V Q L R V I G H S M Q N C L L R L K V D
 - F N F V L L A I L C K I V C L G L K L I
 - S T S C Y W P F Y A K L S A * A * S * Y
 10261 - ACTTCTAACCTAAGACACCCAAGTATAAATTTGTCCGTATCCAACCTGGTCAAACATTT - 10320
 - T S N P K T P K Y K F V R I Q P G Q T F
 - L L T L R H P S I N L S V S N L V K H F
 - F * P * D T Q V * I C P Y P T W S N I F
 10321 - TCAGTTCTAGCATGCTACAATGGTTCACCATCTGGTGTTTATCAGTGTGCCATGAGACCT - 10380
 - S V L A C Y N G S P S G V Y Q C A M R P
 - Q F * H A T M V H L V F I S V P * D L
 - S S S M L Q W F T I W C L S V C H E T *
 10381 - AATCATACCATTAAAGGTTCTTTCTTAATGGATCATGTGGTAGTGTGGTTTTAACATT - 10440
 - N H T I K G S F L N G S C G S V G F N I
 - I I P L K V L S L M D H V V V L V L T L
 - S Y H * R F F P * W I M W * C W F * H *
 10441 - GATTATGATTGCGTGTCTTTCTGCTATATGCATCATATGGAGCTTCCAACAGGAGTACAC - 10500
 - D Y D C V S F C Y M H H M E L P T G V H
 - I M I A C L S A I C I I W S F Q Q E Y T
 - L * L R V F L L Y A S Y G A S N R S T R
 10501 - GCTGGTACTGACTTAGAAGGTAAATTCTATGGTCCATTGTGACAGACAACTGCACAG - 10560
 - A G T D L E G K F Y G P F V D R Q T A Q
 - L V L T * K V N S M V H L L T D K L H R
 - W Y * L R R * I L W S I C * Q T N C T G
 10561 - GCTGCAGGTACAGACACAACCATAACATTAAATGTTTTGGCATGGCTGTATGCTGCTGTT - 10620
 - A A G T D T T I T L N V L A W L Y A A V
 - L Q V Q T Q P * H * M F W H G C M L L L
 - C R Y R H N H N I K C F G M A V C C C Y
 10621 - ATCAATGGTGATAGGTGGTTTCTTAATAGATTCACCACTACTTTGAATGACTTTAACCTT - 10680
 - I N G D R W F L N R F T T T L N D F N L
 - S M V I G G F L I D S P L L * M T L T L
 - Q W * * V V S * * I H H Y F E * L * P C
 10681 - GTGGCAATGAAGTACAACCTTTGACACAAGATCATGTTGACATATTGGGACCT - 10740
 - V A M K Y N Y E P L T Q D H V D I L G P
 - W Q * S T T M N L * H K I M L T Y W D L
 - G N E V Q L * T F D T R S C * H I G T S
 10741 - CTTTCTGCTCAAACAGGAATTGCCGTCTTAGATATGTGTGCTGCTTTGAAAGAGCTGCTG - 10800
 - L S A Q T G I A V L D M C A A L K E L L
 - F L L K Q E L P S * I C V L L * K S C C
 - F C S N R N C R L R Y V C C F E R A A A
 10801 - CAGAATGGTATGAATGGTCGTACTATCCTTGGTAGCACTATTTAGAAAGATGAGTTTACA - 10860
 - Q N G M N G R T I L G S T I L E D E F T
 - R M V * M V V L S L V A L F * K M S L H
 - E W Y E W S Y Y P W * H Y F R R * V Y T
 10861 - CCATTTGATGTTGTTAGACAATGCTCTGGTGTACCTTCCAAGGTAAGTTCAAGAAAATT - 10920
 - P F D V V R Q C S G V T F Q G K F K K I
 - H L M L L D N A L V L P S K V S S R K L
 - I * C C * T M L W C Y L P R * V Q E N C

FIG. 11 Con't

10921 - GTTAAGGGCACTCATCATTGGATGCTTTTAACTTTCTTGACATCACTATTGATTCTTGTT - 10980
 - V K G T H H W M L L T F L T S L L I L V
 - L R A L I I G C F * L S * H H Y * F L F
 - * G H S S L D A F N F L D I T I D S C S
 10981 - CAAAGTACACAGTGGTCACTGTTTTCTTTGTTTACGAGAATGCTTTCTTGCCATTTACT - 11040
 - Q S T Q W S L F F F V Y E N A F L P F T
 - K V H S G H C F S L F T R M L S C H L L
 - K Y T V V T V F L C L R E C F L A I Y S
 11041 - CTTGGTATTATGGCAATTGCTGCATGTGCTATGCTGCTTGTTAAGCATAAGCACGCATTC - 11100
 - L G I M A I A A C A M L L V K H K H A F
 - L V L W Q L L H V L C C L L S I S T H S
 - W Y Y G N C C M C Y A A C * A * A R I L
 11101 - TTGTGCTTGTCTTCTGTTACCTTCTCTTGCAACAGTTGCTTACTTTAATATGGTCTACATG - 11160
 - L C L F L L P S L A T V A Y F N M V Y M
 - C A C F C Y L L L Q Q L L T L I W S T C
 - V L V S V T F S C N S C L L * Y G L H A
 11161 - CCTGCTAGCTGGGTGATGCGTATCATGACATGGCTTGAATTGGCTGACACTAGCTTGTCT - 11220
 - P A S W V M R I M T W L E L A D T S L S
 - L L A G * C V S * H G L N W L T L A C L
 - C * L G D A Y H D M A * I G * H * L V W
 11221 - GGTATAGGCTTAAGGATTGTGTTATGTATGCTTCAGCTTTAGTTTGTCTTATTCTCATG - 11280
 - G Y R L K D C V M Y A S A L V L L I L M
 - V I G L R I V L C M L Q L * F C L F S *
 - L * A * G L C Y V C F S F S F A Y S H D
 11281 - ACAGCTCGCACTGTTTATGATGATGCTGCTAGACGTGTTTGGACACTGATGAATGTCATT - 11340
 - T A R T V Y D D A A R R V W T L M N V I
 - Q L A L F M M M L L D V F G H * * M S L
 - S S H C L * * C C * T C L D T D E C H Y
 11341 - AACTTGTTTACAAAGTCTACTAGGTAATGCTTTAGATCAAGCTATTTCCATGTGGGCC - 11400
 - T L V Y K V Y G N A L D Q A I S M W A
 - H L F T K S T M V M L * I K L F P C G P
 - T C L Q S L L W * C F R S S Y F H V G L
 11401 - TTAGTTATTTCTGTAACCTCTAACTATTCTGGTGTCGTTACGACTATCATGTTTTAGCT - 11460
 - L V I S V T S N Y S G V V T T I M F L A
 - * L F L * P L T I L V S L R L S C F * L
 - S Y F C N L * L F W C R Y D Y H V F S *
 11461 - AGAGCTATAGTGTGTTGTGTGTTGAGTATTACCCATTGTTATTTATTACTGGCAACACC - 11520
 - R A I V F V C V E Y Y P L L F I T G N T
 - E L * C L C V L S I T H C Y L L L A T P
 - S Y S V C V C * V L P I V I Y Y W Q H L
 11521 - TTACAGTGTATCATGCTTGTGTTATTGTTTCTTAGGCTATTGTTGCTGCTGCTACTTTGGC - 11580
 - L Q C I M L V Y C F L G Y C C C C Y F G
 - Y S V S C L F I V S * A I V A A A T L A
 - T V Y H A C L L F L R L L L L L L L W P
 11581 - CTTTTCTGTTTACTCAACCGTTACTTCAGGCTTACTCTTGGTGTTTATGACTACTTGGTC - 11640
 - L F C L L N R Y F R L T L G V Y D Y L V
 - F S V Y S T V T S G L L L V F M T T W S
 - F L F T Q P L L Q A Y S W C L * L L G L
 11641 - TCTACACAAGAATTTAGGTATATGAACCTCCAGGGGCTTTTGCCTCCTAAGAGTAGTATT - 11700
 - S T Q E F R Y M N S Q G L L P P K S S I
 - L H K N L G I * T P R G F C L L R V V L
 - Y T R I * V Y E L P G A F A S * E * Y *
 11701 - GATGCTTTCAAGCTTAACATTAAGTTGTTGGGTATTGGAGGTAAACCATGTATCAAGGTT - 11760
 - D A F K L N I K L L G I G G K P C I K V
 - M L S S L T L S C W V L E V N H V S R L
 - C F Q A * H * V V G Y W R * T M Y Q G C

FIG. 11 Con't

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11761 - GCTACTGTACAGTCTAAAAATGTCTGACGTAAAGTGCACATCTGTGGTACTGCTCTCGGTT - 11820
      - A T V Q S K M S D V K C T S V V L L S V
      - L L Y S L K C L T * S A H L W Y C S R F
      - Y C T V * N V * R K V H I C G T A L G S
11821 - CTTCAACAACCTTAGAGTAGAGTCATCTTCTAAATTGTGGGCACAATGTGTACAACCTCCAC - 11880
      - L Q Q L R V E S S S K L W A Q C V Q L H
      - F N N L E * S H L L N C G H N V Y N S T
      - S T T * S R V I F * I V G T M C T T P Q
11881 - AATGATATTCTTCTTGCAAAAGACACAACCTGAAGCTTTCGAGAAGATGGTTTCTCTTTTG - 11940
      - N D I L L A K D T T E A F E K M V S L L
      - M I F F L Q K T Q L K L S R R W F L F C
      - * Y S S C K R H N * S F R E D G F S F V
11941 - TCTGTTTTGCTATCCATGCAGGGTGCTGTAGACATTAATAGGTTGTGCGAGGAAATGCTC - 12000
      - S V L L S M Q G A V D I N R L C E E M L
      - L F C Y P C R V L * T L I G C A R K C S
      - C F A I H A G C C R H * * V V R G N A R
12001 - GATAACCGTGCTACTCTTCAGGCTATTGCTTCAGAATTTAGTTCTTTACCATCATATGCC - 12060
      - D N R A T L Q A I A S E F S S L P S Y A
      - I T V L L F R L L Q N L V L Y H H M P
      - * P C Y S S G Y C F R I * F F T I I C R
12061 - GCTTATGCCACTGCCAGGAGGCCTATGAGCAGGCTAGCTAATGGTGATTCTGAAGTC - 12120
      - A Y A T A Q E A Y E Q A V A N G D S E V
      - L M P L P R R P M S R L * L M V I L K S
      - L C H C P G G L * A G C S * W * F * S R
12121 - GTTCTCAAAAAGTTAAAGAAATCTTTGAATGTGGCTAAATCTGAGTTTGACCGTGATGCT - 12180
      - V L K K L K K S L N V A K S E F D R D A
      - F S K S * R N L * M W L N L S L T V M L
      - S Q K V K E I F E C G * I * V * P * C C
12181 - GCCATGCAACGCAAGTTGGAAAAGATGGCAGATCAGGCTATGACCCAAATGTACAAACAG - 12240
      - A M Q R K L E K M A D Q A M T Q M Y K Q
      - P C N A S W K R W Q I R L * P K C T N R
      - H A T Q V G K D G R S G Y D P N V Q T G
12241 - GCAAGATCTGAGGACAAGAGGGCAAAAGTAAGTGTGCTATGCAAACAATGCTCTTCACT - 12300
      - A R S E D K R A K V T S A M Q T M L F T
      - Q D L R T R G Q K * L V L C K Q C S S L
      - K I * G Q E G K S N * C Y A N N A L H Y
12301 - ATGCTTAGGAAGCTTGATAATGATGCACTTAACAACATTATCAACAATGCGCGTGATGGT - 12360
      - M L R K L D N D A L N N I I N N A R D G
      - C L G S L I M M H L T T L S T M R V M V
      - A * E A * * * C T * Q H Y Q Q C A * W L
12361 - TGTGTTCCACTCAACATCATACCATTGACTACAGCAGCCAAACTCATGGTTGTTGTCCT - 12420
      - C V P L N I I P L T T A A K L M V V V P
      - V F H S T S Y H * L Q Q P N S W L L S L
      - C S T Q H H T I D Y S S Q T H G C C P *
12421 - GATTATGGTACCTACAAGAACTTGTGATGGTAACACCTTTACATATGCATCTGCACTC - 12480
      - D Y G T Y K N T C D G N T F T Y A S A L
      - I M V P T R T L V M V T P L H M H L H S
      - L W Y L Q E H L * W * H L Y I C I C T L
12481 - TGGGAAATCCAGCAAGTTGTTGATGCGGATAGCAAGATTGTTCAACTTAGTGAAATTAAC - 12540
      - W E I Q Q V V D A D S K I V Q L S E I N
      - G K S S K L L M R I A R L F N L V K L T
      - G N P A S C * C G * Q D C S T * * N * H
12541 - ATGGACAATTACCAAATTTGGCTTGGCCTCTTATTGTTACAGCTCTAAGAGCCAACTCA - 12600
      - M D N S P N L A W P L I V T A L R A N S
      - W T I H Q I W L G L L L L Q L * E P T Q
      - G Q F T K F G L A S Y C Y S S K S Q L S

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FIG. 11 Con't

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12601 - GCTGTTAAACTACAGAATAATGAACTGAGTCCAGTAGCACTACGACAGATGTCCTGTGCG - 12660
      - A V K L Q N N E L S P V A L R Q M S C A
      - L L N Y R I M N * V Q * H Y D R C P V R
      - C * T T E * * T E S S S T T T D V L C G
12661 - GCTGGTACCACACAAACAGCTTGTACTGATGACAATGCACTTGCCTACTATAACAATTG - 12720
      - A G T T Q T A C T D D N A L A Y Y N N S
      - L V P H K Q L V L M T M H L P T I T I R
      - W Y H T N S L Y * * Q C T C L L * Q F E
12721 - AAGGGAGGTAGGTTTGTGCTGGCATTACTATCAGACCACCAAGATCTCAAATGGGCTAGA - 12780
      - K G G R F V L A L L S D H Q D L K W A R
      - R E V G L C W H Y Y Q T T K I S N G L D
      - G R * V C A G I T I R P P R S Q M G * I
12781 - TTCCCTAAGAGTGATGGTACAGGTACAATTTACACAGAACTGGAACCACCTTGTAGGTTT - 12840
      - F P K S D G T G T I Y T E L E P P C R F
      - S L R V M V Q V Q F T Q N W N H L V G L
      - P * E * W Y R Y N L H R T G T T L * V C
12841 - GTTACAGACACACCAAAGGGCCTAAAGTGAAATACCTTGTACTTCATCAAAGGCTTAAAC - 12900
      - V T D T P K G P K V K Y L Y F I K G L N
      - L Q T H Q K G L K * N T C T S S K A * T
      - Y R H T K R A * S E I L V L H Q R L K Q
12901 - AACCTAAATAGAGGTATGGTGCTGGGCAGTTTAGCTGCTACAGTACGTCTTCAGGCTGGA - 12960
      - N L N R G M V L G S L A A T V R L Q A G
      - T * I E V W C W A V * L L Q Y V F R L E
      - P K * R Y G A G Q F S C Y S T S S G W K
12961 - AATGCTACAGAAGTACCTGCCAATTCAACTGTGCTTTCCTTCTGTGCTTTTGCAGTAGAC - 13020
      - N A T E V P A N S T V L S F C A F A V D
      - M L Q K Y L P I Q L C F P S V L L Q * T
      - C Y R S T C Q F N C A F L L C F C S R P
13021 - CCTGCTAAAGCATATAAGGATTACCTAGCAAGTGGAGGACAACCAATCACCAACTGTGTG - 13080
      - P A K A Y K D Y L A S G G Q P I T N C V
      - L L K H I R I T * Q V E D N Q S P T V *
      - C * S I * G L P S K W R T T N H Q L C E
13081 - AAGATGTTGTGTACACACACTGGTACAGGACAGGCAATTACTGTAACACCAGAAGCTAAC - 13140
      - K M L C T H T G T G Q A I T V T P E A N
      - R C C V H T L V Q D R Q L L * H Q K L T
      - D V V Y T H W Y R T G N Y C N T R S * H
13141 - ATGGACCAAGAGTCCTTTGGTGGTGCTTCATGTTGTCTGTATTGTAGATGCCACATTGAC - 13200
      - M D Q E S F G G A S C C L Y C R C H I D
      - W T K S P L V V L H V V C I V D A T L T
      - G P R V L W W C F M L S V L * M P H * P
13201 - CATCCAAATCCTAAAGGATTCTGTGACTTGAAAGGTAAGTACGTCCAAATACCTACCACT - 13260
      - H P N P K G F C D L K G K Y V Q I P T T
      - I Q I L K D S V T * K V S T S K Y L P L
      - S K S * R I L * L E R * V R P N T Y H L
13261 - TGTGCTAATGACCCAGTGGGTTTTACACTTAGAAACACAGTCTGTACCGTCTGCGGAATG - 13320
      - C A N D P V G F T L R N T V C T V C G M
      - V L M T Q W V L H L E T Q S V P S A E C
      - C * * P S G F Y T * K H S L Y R L R N V
13321 - TGGAAAAGTTATGGCTGTAGTTGTGACCAACTCCGCGAACCCCTTGATGCAGTCTGCGGAT - 13380
      - W K G Y G C S C D Q L R E P L M Q S A D
      - G K V M A V V V T N S A N P * C S L R M
      - E R L W L * L * P T P R T L D A V C G C
13381 - GCATCAACGTTTTTTAAACGGGTTTGCGGTGTAAGTGCAGCCCGTCTTACACCGTGCGGCA - 13440
      - A S T F L N G F A V * V Q P V L H R A A
      - H Q R F * T G L R C K C S P S Y T V R H
      - I N V F K R V C G V S A A R L T P C G T

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FIG. 11 Con't

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13441 - CAGGCACTAGTACTGATGTCGTCTACAGGGCTTTTGATATTTACAACGAAAAAAGTGCTG - 13500
- Q A L V L M S S T G L L I F T T K K V L
- R H * Y * C R L Q G F * Y L Q R K K C W
- G T S T D V V Y R A F D I Y N E K S A G
13501 - GTTTTGCAAAGTTCCTAAAACTAATTGCTGTGCTTCCAGGAGAAGGATGAGGAAGGCA - 13560
- V L Q S S * K L I A V A S R R R M R K A
- F C K V P K N * L L S L P G E G * G R Q
- F A K F L K T N C C R F Q E K D E E G N
13561 - ATTTATTAGACTCTTACTTTGTAGTTAAGAGGCATACTATGTCTAACTACCAACATGAAG - 13620
- I Y * T L T L * L R G I L C L T T N M K
- F I R L L L C S * E A Y Y V * L P T * R
- L L D S Y F V V K R H T M S N Y Q H E E
13621 - AGACTATTTATAACTTGGTTAAAGATTGTCCAGCGTTGCTGTCCATGACTTTTTTCAAGT - 13680
- R L F I T W L K I V Q R L L S M T F S S
- D Y L * L G * R L S S G C C P * L F Q V
- T I Y N L V K D C P A V A V H D F F K F
13681 - TTAGAGTAGATGGTGACATGGTACCACATATATCACGTCAGCGTCTAACTAAATACACAA - 13740
- L E * M V T W Y H I Y H V S V * L N T Q
- * S R W * H G T T Y I T S A S N * I H N
- R V D G D M V P H I S R Q R L T K Y T M
13741 - TGGCTGATTTAGTCTATGCTCTACGTCATTTTGATGAGGTAATTGTGATACATTAAAG - 13800
- W L I * S M L Y V I L M R V I V I H * K
- G * F S L C S T S F * * G * L * Y I K R
- A D L V Y A L R H F D E G N C D T L K E
13801 - AAATACTCGTCACATACAATTGCTGTGATGATGATTATTTCAATAAGAAGGATTGGTATG - 13860
- K Y S S H T I A V M M I I S I R R I G M
- N T R H I Q L L * * * L F Q * E G L V *
- I L V T Y N C C D D D Y F N K K D W Y D
13861 - ACTTCGTAGAGAATCCTGACATCTTACGCGTATATGCTAACTTAGGTGAGCGTGACGCC - 13920
- T S * R I L T S Y A Y M L T * V S V Y A
- L R R E S * H L T R I C * L R * A C T P
- F V E N P D I L R V Y A N L G E R V R Q
13921 - AATCATTATTAAAGACTGTACAATTCTGCGATGCTATGCGTGATGCAGGCATTGTAGGCG - 13980
- N H Y * R L Y N S A M L C V M Q A L * A
- I I I K D C T I L R C Y A * C R H C R R
- S L L K T V Q F C D A M R D A G I V G V
13981 - TACTGACATTAGATAATCAGGATCTTAATGGGAAGTGGTACGATTTCCGGTGATTTTCGTAC - 14040
- Y * H * I I R I L M G T G T I S V I S Y
- T D I R * S G S * W E L V R F R * F R T
- L T L D N Q D L N G N W Y D F G D F V Q
14041 - AAGTAGCACCAGGCTGCGGAGTTCCTATTGTGGATTACATATTACTCATTGCTGATGCCCA - 14100
- K * H Q A A E F L L W I H I T H C * C P
- S S T R L R S S Y C G F I L L I A D A H
- V A P G C G G V P I V D S Y Y S L L M P I
14101 - TCCTCACTTTGACTAGGGCATTGGCTGCTGAGTCCCATATGGATGCTGATCTCGCAAAC - 14160
- S S L * L G H W L L S P I W M L I S Q N
- P H F D * G I G C * V P Y G C * S R K T
- L T L T R A L A E S H M D A D L A K P
14161 - CACTTATTAAGTGGGATTGCTGAAATATGATTTTACGGAAGAGAGACTTTGTCTCTTCG - 14220
- H L L S G I C * N M I L R K R D F V S S
- T Y * V G F A E I * F Y G R E T L S L R
- L I K W D L L K Y D F T E E R L C L F D
14221 - ACCGTTATTTTAAATATGTTGGGACCAGACATACCAATTGTATTAAGTGTGTTGGATG - 14280
- T V I L N I G T R H T I P I V L T V W M
- P L F * I L G P D I P S Q L Y * L F G *
- R Y F K Y W D Q T Y H P N C I N C L D D

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FIG. 11 Con't

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14281 - ATAGGTGTATCCTTCATTGTGCAAACTTTAATGTGTTATTTTCTACTGTGTTTCCACCTA - 14340
- I G V S F I V Q T L M C Y F L L C F H L
- * V Y P S L C K L * C V I F Y C V S T Y
- R C I L H C A N F N V L F S T V F P P T
14341 - CAAGTTTTGGACCACTAGTAAGAAAAATATTTGTAGATGGTGTTCCTTTTGTGTTTCAA - 14400
- Q V L D H * * E K Y L * M V F L L L F Q
- K F W T T S K K N I C R W C S F C C F N
- S F G P L V R K I F V D G V P F V V S T
14401 - CTGGATACCATTTTCGTGAGTTAGGAGTCGTACATAATCAGGATGTAACTTACATAGCT - 14460
- L D T I F V S * E S Y I I R M * T Y I A
- W I P F S * V R S R T * S G C K L T * L
- G Y H F R E L G V V H N Q D V N L H S S
14461 - CGCGTCTCAGTTTCAAGGAACTTTATGTGTATGCTGCTGATCCAGCTATGCATGCAGCTT - 14520
- R V S V S R N F * C M L L I Q L C M Q L
- A S Q F Q G T F S V C C * S S Y A C S F
- R L S F K E L L V Y A A D P A M H A A S
14521 - CTGGCAATTTATTGCTAGATAAACGCACTACATGCTTTTTCAGTAGCTGCACTAACAAACA - 14580
- L A I Y C * I N A L H A F Q * L H * Q T
- W Q F I A R * T H Y M L F S S C T N K Q
- G N L L L D K R T T C F S V A A L T N N
14581 - ATGTTGCTTTTCAAAGTGTCAAACCCGGTAATTTTAATAAGACTTTTATGACTTTTGCTG - 14640
- M L L F K L S N P V I L I K T F M T L L
- C C F S N C Q T R * F * * R L L * L C C
- V A F Q T V K P G N F N K D F Y D F A V
14641 - TGTCTAAAGGTTTCTTTAAGGAAGGAAGTTCTGTTGAACTAAAACACTTCTTCTTTGCTC - 14700
- C L K V S L R K E V L L N * N T S S L L
- V * R F L * G R K F C * T K T L L L C S
- S K G F F K E G S S V E L K H F F F A Q
14701 - AGGATGGCAACGCTGCTATCAGTGATTATGACTATTATCGTTATAATCTGCCAACAATGT - 14760
- R M A T L L S V I M T I I V I I C Q Q C
- G W Q R C Y Q * L * L L S L * S A N N V
- D G N A A I S D Y D Y Y R Y N L P T M C
14761 - GTGATATCAGACAACCTCCTATTCGTAGTTGAAGTTGTTGATAAACTTTGATTGTTACG - 14820
- V I S D N S Y S * L K L L I N T L I V T
- * Y Q T T P I R S * S C * * I L * L L R
- D I R Q L L F V V E V V D K Y F D C Y D
14821 - ATGGTGGCTGTATTAATGCCAACCAAGTAATCGTTAACAATCTGGATAAATCAGCTGGTT - 14880
- M V A V L M P T K * S L T I W I N Q L V
- W W L Y * C Q P S N R * Q S G * I S W F
- G G C I N A N Q V I V N N L D K S A G F
14881 - TCCCATTTAATAAATGGGGTAAGGCTAGACTTTATTATGACTCAATGAGTTATGAGGATC - 14940
- S H L I N G V R L D F I M T Q * V M R I
- P I * * M G * G * T L L * L N E L * G S
- P F N K W G K A R L Y Y D S M S Y E D Q
14941 - AAGATGCACTTTTCGCGTATACTAAGCGTAATGTCATCCCTACTATAACTCAAATGAATC - 15000
- K M H F S R I L S V M S S L L * L K * I
- R C T F R V Y * A * C H P Y Y N S N E S
- D A L F A Y T K R N V I P T I T Q M N L
15001 - TTAAGTATGCCATTAGTGCAAAGAATAGAGCTCGCACCGTAGCTGGTGTCTCTATCTGTA - 15060
- L S M P L V Q R I E L A P * L V S L S V
- * V C H * C K E * S S H R S W C L Y L *
- K Y A I S A K N R A R T V A G V S I C S
15061 - GTACTATGACAAATAGACAGTTTCATCAGAAATTATTGAAGTCAATAGCCGCCACTAGAG - 15120
- V L * Q I D S F I R N Y * S Q * P P L E
- Y Y D K * T V S S E I I E V N S R H * R
- T M T N R Q F H Q K L L K S I A A T R G

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FIG. 11 Con't

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15121 - GAGCTACTGTGGTAATTGGAACAAGCAAGTTTTACGGTGGCTGGCATAATATGTTAAAAA - 15180
      - E L L W * L E Q A S F T V A G I I C * K
      - S Y C G N W N K Q V L R W L A * Y V K N
      - A T V V I G T S K F Y G G W H N M L K T
15181 - CTGTTTACAGTGATGTAGAACTCCACACCTTATGGGTTGGGATTATCCAAAATGTGACA - 15240
      - L F T V M * K L H T L W V G I I Q N V T
      - C L Q * C R N S T P Y G L G L S K M * Q
      - V Y S D V E T P H L M G W D Y P K C D R
15241 - GAGCCATGCCTAACATGCTTAGGATAATGGCCTCTCTTGTCTTGCTCGCAAACATAACA - 15300
      - E P C L T C L G * W P L L F L L A N I T
      - S H A * H A * D N G L S C S C S Q T * H
      - A M P N M L R I M A S L V L A R K H N T
15301 - CTTGCTGTAACCTTATCACACCGTTTCTACAGGTTAGCTAACGAGTGTGCGCAAGTATTAA - 15360
      - L A V T Y H T V S T G * L T S V R K Y *
      - L L * L I T P F L Q V S * R V C A S I K
      - C C N L S H R F Y R L A N E C A Q V L S
15361 - GTGAGATGGTCATGTGTGGCGGCTCACTATATGTTAAACCAGGTGGAACATCATCCGGTG - 15420
      - V R W S C V A A H Y M L N Q V E H H P V
      - * D G H V W R L T I C * T R W N I I R *
      - E M V M C G G S L Y V K P G G T S S G D
15421 - ATGCTACAACCTGCTTATGCTAATAGTGTCTTTAACATTTGTCAAGCTGTTACAGCCAATG - 15480
      - M L Q L L M L I V S L T F V K L L Q P M
      - C Y N C L C * * C L * H L S S C Y S Q C
      - A T T A Y A N S V F N I C Q A V T A N V
15481 - TAAATGCACTTCTTTCAACTGATGGTAATAAGATAGCTGACAAGTATGTCCGCAATCTAC - 15540
      - * M H F F Q L M V I R * L T S M S A I Y
      - K C T S F N * W * * D S * Q V C P Q S T
      - N A L L S T D G N K I A D K Y V R N L Q
15541 - AACACAGGCTCTATGAGTGTCTCTATAGAAATAGGGATGTTGATCATGAATTCGTGGATG - 15600
      - N T G S M S V S I E I G M L I M N S W M
      - T Q A L * V S L * K * G C * S * I R G *
      - H R L Y E C L Y R N R D V D H E F V D E
15601 - AGTTTTACGCTTACCTGCGTAAACATTTCTCCATGATGATTCTTTCTGATGATGCCGTTG - 15660
      - S F T L T C V N I S P * * F F L M M P L
      - V L R L P A * T F L H D D S F * * C R C
      - F Y A Y L R K H F S M M I L S D D A V V
15661 - TGTGCTATAACAGTAACCTATGCGGCTCAAGGTTTAGTAGCTAGCATTAAGAACTTTAAGG - 15720
      - C A I T V T M R L K V * * L A L R T L R
      - V L * Q * L C G S R F S S * H * E L * G
      - C Y N S N Y A A Q G L V A S I K N F K A
15721 - CAGTTCTTTATTATCAAAATAATGTGTTTCATGTCTGAGGCAAAATGTTGGACTGAGACTG - 15780
      - Q F F I I K I M C S C L R Q N V G L R L
      - S S L L S K * C V H V * G K M L D * D *
      - V L Y Y Q N N V F M S E A K C W T E T D
15781 - ACCTTACTAAAGGACCTCACGAATTTTGCTCACAGCATACAATGCTAGTTAAACAAGGAG - 15840
      - T L L K D L T N F A H S I Q C * L N K E
      - P Y * R T S R I L L T A Y N A S * T R R
      - L T K G P H E F C S Q H T M L V K Q G D
15841 - ATGATTACGTGTACCTGCCTTACCCAGATCCATCAAGAATATTAGGCGCAGGCTGTTTTG - 15900
      - M I T C T C L T Q I H Q E Y * A Q A V L
      - * L R V P A L P R S I K N I R R R L F C
      - D Y V Y L P Y P D P S R I L G A G C F V
15901 - TCGATGATATTGTCAAAACAGATGGTACACTTATGATTGAAAGGTTTCGTGTCACTGGCTA - 15960
      - S M I L S K Q M V H L * L K G S C H W L
      - R * Y C Q N R W Y T Y D * K V R V T G Y
      - D D I V K T D G T L M I E R F V S L A I

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FIG. 11 Con't

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15961 - TTGATGCTTACCCACTTACAAAACATCCTAATCAGGAGTATGCTGATGTCTTTCACTTGT - 16020
- L M L T H L Q N I L I R S M L M S F T C
- * C L P T Y K T S * S G V C * C L S L V
- D A Y P L T K H P N Q E Y A D V F H L Y
16021 - ATTTACAATACATTAGAAAAGTTACATGATGAGCTTACTGGCCACATGTTGGACATGTATT - 16080
- I Y N T L E S Y M M S L L A T C W T C I
- F T I H * K V T * * A Y W P H V G H V F
- L Q Y I R K L H D E L T G H M L D M Y S
16081 - CCGTAATGCTAACTAATGATAACACCTCACGGTACTGGGAACCTGAGTTTTATGAGGCTA - 16140
- P * C * L M I T P H G T G N L S F M R L
- R N A N * * * H L T V L G T * V L * G Y
- V M L T N D N T S R Y W E P E F Y E A M
16141 - TGTACACACCACATACAGTCTTGCAGGCTGTAGGTGCTTGTGTATTGTGCAATTCACAGA - 16200
- C T H H I Q S C R L * V L V Y C A I H R
- V H T T Y S L A G C R C L C I V Q F T D
- Y T P H T V L Q A V G A C V L C N S Q T
16201 - CTTCACCTTCGTTGCGGTGCCTGTATTAGGAGACCATTCCCTATGTTGCAAGTGCTGCTATG - 16260
- L H F V A V P V L G D H S Y V A S A A M
- F T S L R C L Y * E T I P M L Q V L L *
- S L R C G A C I R R P F L C C K C C Y D
16261 - ACCATGTCATTTCAACATCACACAAATTAGTGTTGTCTGTTAATCCCTATGTTTGCAATG - 16320
- T M S F Q H H T N * C C L L I P M F A M
- P C H F N I T Q I S V V C * S L C L Q C
- H V I S T S H K L V L S V N P Y V C N A
16321 - CCCCAGGTTGTGATGTCACTGATGTGACACAACCTGTATCTAGGAGGTATGAGCTATTATT - 16380
- P Q V V M S L M * H N C I * E V * A I I
- P R L * C H * C D T T V S R R Y E L L L
- P G C D V T D V T Q L Y L G G M S Y Y C
16381 - GCAAGTCACATAAGCCTCCCATTATTTCCATTATGTGCTAATGGTCAGGTTTTTGGTT - 16440
- A S H I S L P L V F H Y V L M V R F L V
- Q V T * A S H * F S I M C * W S G F W F
- K S H K P P I S F P L C A N G Q V F G L
16441 - TATACAAAAACACATGTGTAGGCAGTGACAATGTCACTGACTTCAATGCGATAGCAACAT - 16500
- Y T K T H V * A V T M S L T S M R * Q H
- I Q K H M C R Q * Q C H * L Q C D S N M
- Y K N T C V G S D N V T D F N A I A T C
16501 - GTGATTGGACTAATGCTGGCGATTACATACTTGCCAACACTTGTACTGAGAGACTCAAGC - 16560
- V I G L M L A I T Y L P T L V L R D S S
- * L D * C W R L H T L C Q H L Y * E T Q A
- D W T N A G D Y I L A N T C T E R L K L
16561 - TTTTCGCAGCAGAAACGCTCAAAGCCACTGAGGAAACATTTAAGCTGTCATATGGTATTG - 16620
- F S Q Q K R S K P L R K H L S C H M V L
- F R S R N A Q S H * G N I * A V I W Y C
- F A A E T L K A T E E T F K L S Y G I A
16621 - CCACTGTACGCGAAGTACTCTCTGACAGAGAATTGCATCTTTCATGGGAGGTTGGAAAAC - 16680
- P L Y A K Y S L T E N C I F H G R L E N
- H C T R S T L * Q R I A S F M G W K T
- T V R E V L S D R E L H L S W E V G K P
16681 - CTAGACCACCATTGAACAGAACTATGTCTTTACTGGTTACCGTGTAACATAAAATAGTA - 16740
- L D H H * T E T M S L L V T V * L K I V
- * T T I E Q K L C L Y W L P C N * K * *
- R P P L N R N Y V F T G Y R V T K N S K
16741 - AAGTACAGATTGGAGAGTACACCTTTGAAAAGGTGACTATGGTGATGCTGTTGTGTACA - 16800
- K Y R L E S T P L K K V T M V M L L C T
- S T D W R V H L * K R * L W * C C C V Q
- V Q I G E Y T F E K G D Y G D A V V Y R

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FIG. 11 Con't

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16801 - GAGGTACTACGACATACAAGTTGAATGTTGGTGATTACTTTGTGTTGACATCTCACACTG - 16860
- E V L R H T S * M L V I T L C * H L T L
- R Y Y D I Q V E C W * L L C V D I S H C
- G T T T Y K L N V G D Y F V L T S H T V
16861 - TAATGCCACTTAGTGACCTACTCTAGTGCCACAAGAGCACTATGTGAGAATTACTGGCT - 16920
- * C H L V H L L * C H K S T M * E L L A
- N A T * C T Y S S A T R A L C E N Y W L
- M P L S A P T L V P Q E H Y V R I T G L
16921 - TGTACCCAACACTCAACATCTCAGATGAGTTTCTAGCAATGTTGCAAATTATCAAAAGG - 16980
- C T Q H S T S Q M S F L A M L Q I I K R
- V P N T Q H L R * V F * Q C C K L S K G
- Y P T L N I S D E F S S N V A N Y Q K V
16981 - TCGGCATGCAAAAGTACTCTACACTCCAAGGACCACCTGGTACTGGTAAGAGTCATTTTG - 17040
- S A C K S T L H S K D H L V L V R V I L
- R H A K V L Y T P R T T W Y W * E S F C
- G M Q K Y S T L Q G P P G T G K S H F A
17041 - CCATCGGACTTGCTCTCTATTACCCATCTGCTCGCATAGTGTATACGGCATGCTCTCATG - 17100
- P S D L L S I T H L L A * C I R H A L M
- H R T C S L L P I C S H S V Y G M L S C
- I G L A L Y Y P S A R I V Y T A C S H A
17101 - CAGCTGTTGATGCCCTATGTGAAAAGGCATTAATAATTTGCCCATAGATAAATGTAGTA - 17160
- Q L L M P Y V K R H * N I C P * I N V V
- S C * C P M * K G I K I F A H R * M * *
- A V D A L C E K A L K Y L P I D K C S R
17161 - GAATCATACCTGCGCGTGCGCGTAGAGTGTTTGATAAATTCAAAGTGAATTCAACAC - 17220
- E S Y L R V R A * S V L I N S K * I Q H
- N H T C A C A R R V F * * I Q S E F N T
- I I P A R A R V E C F D K F K V N S T L
17221 - TAGAACAGTATGTTTTCTGCACTGTAAATGCATTGCCAGAAACAACCTGCTGACATTGTAG - 17280
- * N S M F S A L * M H C Q K Q L L T L *
- R T V C F L H C K C I A R N N C * H C S
- E Q Y V F C T V N A L P E T T A D I V V
17281 - TCTTTGATGAAATCTCTATGGCTACTAATTATGACTTGAGTGTGTCAATGCTAGACTTC - 17340
- S L M K S L W L L I M T * V L S M L D F
- L * * N L Y G Y * L * L E C C Q C * T S
- F D E I S M A T N Y D L S V V N A R L R
17341 - GTGCAAAACACTACGTCTATATTGGCGATCCTGCTCAATTACCAGCCCCCGCACATTGC - 17400
- V Q N T T S I L A I L L N Y Q P P A H C
- C K T L R L Y W R S C S I T S P P H I A
- A K H Y V Y I G D P A Q L P A P R T L L
17401 - TGAATAAAGGCACACTAGAACCAGAATATTTTAATTCAAGTGTGCAGACTTATGAAAACAA - 17460
- * L K A H * N Q N I L I Q C A D L * K Q
- D * R H T R T R I F * F S V Q T Y E N N
- T K G T L E P E Y F N S V C R L M K T I
17461 - TAGGTCCAGACATGTTTCCTTGGAAGTGTGCGCGTTGTCCTGCTGAAATTGTTGACACTG - 17520
- * V Q T C S L E L V A V V L L K L L T L
- R S R H V P W N L S P L S C * N C * H C
- G P D M F L G T C R R C P A E I V D T V
17521 - TGAGTGCTTTAGTTTATGACAATAAGCTAAAAGCACACAAGGATAAGTCAGCTCAATGCT - 17580
- * V L * F M T I S * K H T R I S Q L N A
- E C F S L * Q * A K S T Q G * V S S M L
- S A L V Y D N K L K A H K D K S A Q C F
17581 - TCAAAATGTTCTACAAAGGTGTTATTACACATGATGTTTCATCTGCAATCAACAGACCTC - 17640
- S K C S T K V L L H M M F H L Q S T D L
- Q N V L Q R C Y Y T * C F I C N Q Q T S
- K M F Y K G V I T H D V S S A I N R P Q

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FIG. 11 Con't

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17641 - AAATAGGCGTTGTAAGAGAATTTCTTACACGCAATCCTGCTTGGAGAAAAGCTGTTTTTA - 17700
      - K * A L * E N F L H A I L L G E K L F L
      - N R R C K R I S Y T Q S C L E K S C F Y
      - I G V V R E F L T R N P A W R K A V F I
17701 - TCTCACCTTATAATTCACAGAACGCTGTAGCTTCAAAAATCTTAGGATTGCCTACGCAGA - 17760
      - S H L I I H R T L * L Q K S * D C L R R
      - L T L * F T E R C S F K N L R I A Y A D
      - S P Y N S Q N A V A S K I L G L P T Q T
17761 - CTGTTGATTTCATCACAGGGTTCTGAATATGACTATGTCATATTCACACAACTACTGAAA - 17820
      - L L I H H R V L N M T M S Y S H K L L K
      - C * F I T G F * I * L C H I H T N Y * N
      - V D S S Q G S E Y D Y V I F T Q T T E T
17821 - CAGCACACTCTTGTAATGTCAACCGCTTCAATGTGGCTATCACAAGGGCAAAAATTGGCA - 17880
      - Q H T L V M S T A S M W L S Q G Q K L A
      - S T L L * C Q P L Q C G Y H K G K N W H
      - A H S C N V N R F N V A I T R A K I G I
17881 - TTTTGTGCATAATGTCTGATAGAGATCTTTATGACAACTGCAATTTACAAGTCTAGAAA - 17940
      - F C A * C L I E I F M T N C N L Q V * K
      - F V H N V * * R S L * Q T A I Y K S R N
      - L C I M S D R D L Y D K L Q F T S L E I
17941 - TACCACGTCGCAATGTGGCTACATTACAAGCAGAAAATGTAAGTGGACTTTTTAAGGACT - 18000
      - Y H V A M W L H Y K Q K M * L D F L R T
      - T T S Q C G Y I T S R K C N W T F * G L
      - P R R N V A T L Q A E N V T G L F K D C
18001 - GTAGTAAGATCATTACTGGTCTTCATCCTACACAGGCACCTACACACCTCAGCGTTGATA - 18060
      - V V R S L L V F I L H R H L H T S A L I
      - * * D H Y W S S S Y T G T Y T P Q R * Y
      - S K I I T G L H P T Q A P T H L S V D I
18061 - TAAAATTCAAGACTGAAGGATTATGTGTTGACATACCAGGCATACCAAAGGACATGACCT - 18120
      - * N S R L K D Y V L T Y Q A Y Q R T * P
      - K I Q D * R I M C * H T R H T K G H D L
      - K F K T E G L C V D I P G I P K D M T Y
18121 - ACCGTAGACTCATCTCTATGATGGGTTTCAAAATGAATTACCAAGTCAATGGTTACCCTA - 18180
      - T V D S S L * W V S K * I T K S M V T L
      - P * T H L Y D G F Q N E L P S Q W L P *
      - R R L I S M M G F K M N Y Q V N G Y P N
18181 - ATATGTTTATCACCCGCGAAGAAGCTATTTCGTACGTTTCGTGCGTGGATTGGCTTTGATG - 18240
      - I C L S P A K K L F V T F V R G L A L M
      - Y V Y H P R R S Y S S R S C V D W L * C
      - M F I T R E E A I R H V R A W I G F D V
18241 - TAGAGGGCTGTCATGCAACTAGAGATGCTGTGGGTACTAACCTACCTCTCCAGCTAGGAT - 18300
      - * R A V M Q L E M L W V L T Y L S S * D
      - R G L S C N * R C C G Y * P T S P A R I
      - E G C H A T R D A V G T N L P L Q L G F
18301 - TTTCTACAGGTGTTAACTTAGTAGCTGTACCGACTGGTTATGTTGACACTGAAAATAACA - 18360
      - F L Q V L T * * L Y R L V M L T L K I T
      - F Y R C * L S S C T D W L C * H * K * H
      - S T G V N L V A V P T G Y V D T E N N T
18361 - CAGAATTCAACAGAGTTAATGCAAAACCTCCACCAGGTGACCAGTTTAAACATCTTATAC - 18420
      - Q N S P E L M Q N L H Q V T S L N I L Y
      - R I H Q S * C K T S T R * P V * T S Y T
      - E F T R V N A K P P P G D Q F K H L I P
18421 - CACTCATGTATAAAGGCTTGCCCTGGAATGTAGTGCCTATTAAGATAGTACAAATGCTCA - 18480
      - H S C I K A C P G M * C V L R * Y K C S
      - T H V * R L A L E C S A Y * D S T N A Q
      - L M Y K G L P W N V V R I K I V Q M L S

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FIG. 11 Con't

18481 - GTGATACTGAAAGGATTGTCAGACAGAGTCGTGTTTCGTCCTTTGGGCGCATGGCCTTTG - 18540
 - V I H * K D C Q T E S C S S F G R M A L
 - * Y T E R I V R Q S R V R P L G A W L *
 - D T L K G L S D R V V F V L W A H G F E
 18541 - AGCTTACATCAATGAAGTACTTTGTCAAGATTGGACCTGAAAGAACGTGTTGTCTGTGTG - 18600
 - S L H Q * S T L S R L D L K E R V V C V
 - A Y I N E V L C Q D W T * K N V L S V *
 - L T S M K Y F V K I G P E R T C C L C D
 18601 - ACAAACGTGCAACTTGCTTTTCTACTTCATCAGATACTTATGCCTGCTGGAATCATTCTG - 18660
 - T N V Q L A F L L H Q I L M P A G I I L
 - Q T C N L L F Y F I R Y L C L L E S F C
 - K R A T C F S T S S D T Y A C W N H S V
 18661 - TGGGTTTTGACTATGTCTATAACCCATTTATGATTGATGTTTCAGCAGTGGGGCTTTACGG - 18720
 - W V L T M S I T H L * L M F S S G A L R
 - G F * L C L * P I Y D * C S A V G L Y G
 - G F D Y V Y N P F M I D V Q Q W G F T G
 18721 - GTAACCTTCAGAGTAACCATGACCAACATTGCCAGGTACATGGAAATGCACATGTGGCTA - 18780
 - V T F R V T M T N I A R Y M E M H M W L
 - * P S E * P * P T L P G T W K C T C G *
 - N L Q S N H D Q H C Q V H G N A H V A S
 18781 - GTTGTGATGCTATCATGACTAGATGTTTAGCAGTCCATGAGTGCTTTGTTAAGCGCGTTG - 18840
 - V V M L S * L D V * Q S M S A L L S A L
 - L * C Y H D * M F S S P * V L C * A R *
 - C D A I M T R C L A V H E C F V K R V D
 18841 - ATTGGTCTGTTGAATACCCTATTATAGGAGATGAAGTGAAGGGTTAATTCTGCTTGCAGAA - 18900
 - I G L L N T L L * E M N * G L I L L A E
 - L V C * I P Y Y R R * T E G * F C L Q K
 - W S V E Y P I I G D E L R V N S A C R K
 18901 - AAGTACAACACATGGTTGTGAAGTCTGCATTGCTTGCTGATAAGTTTCCAGTTCTTCATG - 18960
 - K Y N T W L * S L H C L L I S F Q F F M
 - S T T H G C E V C I A C * * V S S S *
 - V Q H M V V K S A L L A D K F P V L H D
 18961 - ACATTGGAAATCCAAAGGCTATCAAGTGTGTGCCTCAGGCTGAAGTAGAATGGAAGTTCT - 19020
 - T L E I Q R L S S V C L R L K * N G S S
 - H W K S K G Y Q V C A S G * S R M E V L
 - I G N P K A I K C V P Q A E V E W K F Y
 19021 - ACGATGCTCAGCCATGTAGTGACAAAGCTTACAAAATAGAGGAACTCTTCTATTCTTATG - 19080
 - T M L S H V V T K L T K * R N S S I L M
 - R C S A M * * Q S L Q N R G T L L F L C
 - D A Q P C S D K A Y K I E E L F Y S Y A
 19081 - CTACACATCACGATAAATTCAGTATGGTGTGTTTGTGTTTGGGAATTGTAACGTTGATC - 19140
 - L H I T I N S L M V F V C F G I V T L I
 - Y T S R * I H * W C L F V L E L * R * S
 - T H H D K F T D G V C L F W N C N V D R
 19141 - GTTACCCAGCCAATGCAATTGTGTGTAGGTTTGACACAAGAGTCTTGTCAAACCTTGAAC - 19200
 - V T Q P M Q L C V G L T Q E S C Q T * T
 - L P S Q C N C V * V * H K S L V K L E L
 - Y P A N A I V C R F D T R V L S N L N L
 19201 - TACCAGGCTGTGATGGTGGTAGTTTGTATGTGAATAAGCATGCATTCCACACTCCAGCTT - 19260
 - Y Q A V M V V V C M * I S M H S T L Q L
 - T R L * W W * F V C E * A C I P H S S F
 - P G C D G G S L Y V N K H A F H T P A F
 19261 - TCGATAAAAGTGCAATTTACTAATTTAAAGCAATTGCCTTTCTTTTACTATTCTGATAGTC - 19320
 - S I K V H L L I * S N C L S F T I L I V
 - R * K C I Y * F K A I A F L L L F * * S
 - D K S A F T N L K Q L P F F Y Y S D S P

FIG. 11 Con't

19321 - CTTGTGAGTCTCATGGCAAACAAGTAGTGTGCGATATTGATTATGTTCCACTCAAATCTG - 19380
 - L V S L M A N K * C R I L I M F H S N L
 - L * V S W Q T S S V G Y * L C S T Q I C
 - C E S H G K Q V V S D I D Y V P L K S A
 19381 - CTACGTGTATTACACGATGCAATTTAGGTGGTGTGTTTGCAGACACCATGCAAATGAGT - 19440
 - L R V L H D A I * V V L F A D T M Q M S
 - Y V Y Y T M Q F R W C C L Q T P C K * V
 - T C I T R C N L G G A V C R H H A N E Y
 19441 - ACCGACAGTACTTGGATGCATATAATATGATGATTTCTGCTGGATTTAGCCTATGGATTT - 19500
 - T D S T W M H I I * * F L L D L A Y G F
 - P T V L G C I * Y D D F C W I * P M D L
 - R Q Y L D A Y N M M I S A G F S L W I Y
 19501 - ACAAACAATTTGATACTTATAACCTGTGGAATACATTTACCAGGTTACAGAGTTTAGAAA - 19560
 - T N N L I L I T C G I H L P G Y R V * K
 - Q T I * Y L * P V E Y I Y Q V T E F R K
 - K Q F D T Y N L W N T F T R L Q S L E N
 19561 - ATGTGGCTTATAATGTTGTTAATAAAGGACACTTTGATGGACACGCCGCGAAGCACCTG - 19620
 - M W L I M L L I K D T L M D T P A K H L
 - C G L * C C * * R T L * W T R R R S T C
 - V A Y N V V N K G H F D G H A G E A P V
 19621 - TTTCCATCATTATAATGCTGTTTACACAAAGGTAGATGGTATTGATGTGGAGATCTTTG - 19680
 - F P S L I M L F T Q R * M V L M W R S L
 - F H H * * C C L H K G R W Y * C G D L *
 - S I I N N A V Y T K V D G I D V E I F E
 19681 - AAAATAAGACAACACTTCCTGTTAATGTTGCATTTGAGCTTTGGGCTAAGCGTAACATTA - 19740
 - K I R Q H F L L M L H L S F G L S V T L
 - K * D N T S C * C C I * A L G * A * H *
 - N K T T L P V N V A F E L W A K R N I K
 19741 - AACCAGTGCCAGAGATTAAGATACTCAATAATTTGGGTGTTGATATCGCTGCTAATATG - 19800
 - N Q C Q R L R Y S I I W V L I S L L I L
 - T S A R D * D T Q * F G C * Y R C * Y C
 - P V P E I K I L N N L G V D I A A N T V
 19801 - TAATCTGGGACTACAAAAGAGAAGCCCCAGCACATGTATCTACAATAGGTGTCTGCACAA - 19860
 - * S G T T K E K P Q H M Y L Q * V S A Q
 - N L G L Q K R S P S T C I Y N R C L H N
 - I W D Y K R E A P A H V S T I G V C T M
 19861 - TGACTGACATTGCCAAGAAACCTACTGAGAGTGCTTGTCTTCACTTACTGTCTTGTGTTG - 19920
 - * L T L P R N L L R V L V L H L L S C L
 - D * H C Q E T Y * E C L F F T Y C L V *
 - T D I A K K P T E S A C S S L T V L F D
 19921 - ATGGTAGAGTGGAAGGACAGGTAGACCTTTTTAGAAACGCCCGTAATGGTGTGTTTAATAA - 19980
 - M V E W K D R * T F L E T P V M V F * *
 - W * S G R T G R P F * K R P * W C F N N
 - G R V E G Q V D L F R N A R N G V L I T
 19981 - CAGAAGGTTCAAGGTTCAACACCTTCAAAGGGACCAGCACAAAGCTAGCGTCAATG - 20040
 - Q K V Q S K V * H L Q R D Q H K L A S M
 - R R F S Q R S N T F K G T S T S * R Q W
 - E G S V K G L T P S K G P A Q A S V N G
 20041 - GAGTCACATTAATTGGAGAATCAGTAAAAACACAGTTTAACTACTTTAAGAAAAGTAGACG - 20100
 - E S H * L E N Q * K H S L T T L R K * T
 - S H I N W R I S K N T V * L L * E S R R
 - V T L I G E S V K T Q F N Y F K K V D G
 20101 - GCATTATTCAACAGTTGCCTGAAACCTACTTTACTCAGAGCAGAGACTTAGAGGATTTTA - 20160
 - A L F N S C L K P T L L R A E T * R I L
 - H Y S T V A * N L L Y S E Q R L R G F *
 - I I Q Q L P E T Y F T Q S R D L E D F K

FIG. 11 Con't

20161 - AGCCCAGATCACAAATGGAAACTGACTTTCTCGAGCTCGCTATGGATGAATTCATACAGC - 20220
 - S P D H K W K L T F S S S L W M N S Y S
 - A Q I T N G N * L S R A R Y G * I H T A
 - P R S Q M E T D F L E L A M D E F I Q R
 20221 - GATATAAGCTCGAGGGCTATGCCTTCGAACACATCGTTTATGGAGATTTTCAGTCATGGAC - 20280
 - D I S S R A M P S N T S F M E I S V M D
 - I * A R G L C L R T H R L W R F Q S W T
 - Y K L E G Y A F E H I V Y G D F S H G Q
 20281 - AACTTGGCGGTCTTCATTTAATGATAGGCTTAGCCAAGCGCTCACAAGATTCACCACTTA - 20340
 - N L A V F I * * * A * P S A H K I H H L
 - T W R S S F N D R L S Q A L T R F T T *
 - L G G L H L M I G L A K R S Q D S P L K
 20341 - AATTAGAGGATTTTATCCCTATGGACAGCACAGTGAAAAATTACTTCATAACAGATGCGC - 20400
 - N * R I L S L W T A Q * K I T S * Q M R
 - I R G F Y P Y G Q H S E K L L H N R C A
 - L E D F I P M D S T V K N Y F I T D A Q
 20401 - AAACAGGTTTCATCAAAATGTGTGTGTTCTGTGATTGATCTTTTACTTGATGACTTTGTGCG - 20460
 - K Q V H Q N V C V L * L I F Y L M T L S
 - N R F I K M C V F C D * S F T * * L C R
 - T G S S K C V C S V I D L L L D D F V E
 20461 - AGATAATAAAGTCACAAGATTTGTGAGTATTTCAAAAGTGGTCAAGGTTACAATTGACT - 20520
 - R * * S H K I C Q * F Q K W S R L Q L T
 - D N K V T R F V S D F K S G Q G Y N * L
 - I I K S Q D L S V I S K V V K V T I D Y
 20521 - ATGCTGAAATTTTCATTCATGCTTTGGTGTAAGGATGGACATGTTGAAACCTTCTACCCAA - 20580
 - M L K F H S C F G V R M D M L K P S T Q
 - C * N F I H A L V * G W T C * N L L P K
 - A E I S F M L W C K D G H V E T F Y P K
 20581 - AACTACAAGCAAGTCAAGCGTGGCAACCAGGTGTTGCGATGCCTAACTTGTACAAGATGC - 20640
 - N Y K Q V K R G N Q V L R C L T C T R C
 - T T S K S S V A T R C C D A * L V Q D A
 - L Q A S Q A W Q P G V A M P N L Y K M Q
 20641 - AAAGAATGCTTCTTGAAAAGTGTGACCTTCAGAATTATGGTGAAAATGCTGTTATACCAA - 20700
 - K E C F L K S V T F R I M V K M L L Y Q
 - K N A S * K V * P S E L W * K C C Y T K
 - R M L L E K C D L Q N Y G E N A V I P K
 20701 - AAGGAATAATGATGAATGTGCGAAAGTATACTCAACTGTGTCAATACTTAAATACACTTA - 20760
 - K E * * * M S Q S I L N C V N T * I H L
 - R N N D E C R K V Y S T V S I L K Y T Y
 - G I M M N V A K Y T Q L C Q Y L N T L T
 20761 - CTTTAGCTGTACCCTACAACATGAGAGTTATTCACCTTTGGTGCTGGCTCTGATAAAGGAG - 20820
 - L * L Y P T T * E L F T L V L A L I K E
 - F S C T L Q H E S Y S L W C W L * * R S
 - L A V P Y N M R V I H F G A G S D K G V
 20821 - TTGCACCAGGTACAGCTGTGCTCAGACAATGGTTGCCAACTGGCACACTACTTGTGCGATT - 20880
 - L H Q V Q L C S D N G C Q L A H Y L S I
 - C T R Y S C A Q T M V A N W H T T C R F
 - A P G T A V L R Q W L P T G T L L V D S
 20881 - CAGATCTTAATGACTTCGTCTCCGACGCAGATTCTACTTTAATTGGAGACTGTGCAACAG - 20940
 - Q I L M T S S P T Q I L L * L E T V Q Q
 - R S * * L R L R R R F Y F N W R L C N S
 - D L N D F V S D A D S T L I G D C A T V
 20941 - TACATACGGCTAATAAATGGGACCTTATTATTAGCGATATGTATGACCCTAGGACCAAAC - 21000
 - Y I R L I N G T L L L A I C M T L G P N
 - T Y G * * M G P Y Y * R Y V * P * D Q T
 - H T A N K W D L I I S D M Y D P R T K H

FIG. 11 Con't

21001 - ATGTGACAAAAGAGAATGACTCTAAAGAAGGGTTTTCTACTTATCTGTGTGGATTTATAA - 21060
 - M * Q K R M T L K K G F S L I C V D L *
 - C D K R E * L * R R V F H L S V W I Y K
 - V T K E N D S K E G F F T Y L C G F I K
 21061 - AGCAAAACTAGCCCTGGGTGGTTCTATAGCTGTAAAGATAACAGAGCATTCTTGAATG - 21120
 - S K N * P W V V L * L * R * Q S I L G M
 - A K T S P G W F Y S C K D N R A F L E C
 - Q K L A L G G S I A V K I T E H S W N A
 21121 - CTGACCTTTACAAGCTTATGGGCCATTTCTCATGGTGGACAGCTTTTGTACAAATGTAA - 21180
 - L T F T S L W A I S H G G Q L L L Q M *
 - * P L Q A Y G P F L M V D S F C Y K C K
 - D L Y K L M G H F S W W T A F V T N V N
 21181 - ATGCATCATCATCGGAAGCATTTTTAATTGGGGCTAACTATCTTGGCAAGCCGAAGGAAC - 21240
 - M H H H R K H F * L G L T I L A S R R N
 - C I I I G S I F N W G * L S W Q A E G T
 - A S S S E A F L I G A N Y L G K P K E Q
 21241 - AAATTGATGGCTATACCATGCATGCTAACTACATTTTCTGGAGGAACACAAATCCTATCC - 21300
 - K L M A I P C M L T T F S G G T Q I L S
 - N * W L Y H A C * L H F L E E H K S Y P
 - I D G Y T M H A N Y I F W R N T N P I Q
 21301 - AGTTGTCTTCTTATTCACTCTTTGACATGAGCAAATTTCTCTTAAATTAAGAGGAAGT - 21360
 - S C L P I H S L T * A N F L L N * E E L
 - V V F L F T L * H E Q I S S * I K R N C
 - L S S Y S L F D M S K F P L K L R G T A
 21361 - CTGTAATGTCTCTTAAGGAGAATCAAATCAATGATATGATTATTCTTCTTCTGGAAAAAG - 21420
 - L * C L L R R I K S M I * F I L F W K K
 - C N V S * G E S N Q * Y D L F S S G K R
 - V M S L K E N Q I N D M I Y S L L E K G
 21421 - GTAGGCTTATCATTAGAGAAAACAACAGAGTTGTGGTTTCAAGTGATATTCTTGTGTAACA - 21480
 - V G L S L E K T T E L W F Q V I F L L T
 - * A Y H * R K Q Q S C G F K * Y S C * Q
 - R L I I R E N N R V V V S S D I L V N N
 21481 - ACTAAACGAACATGTTTATTTTCTTATTATTTCTTACTCTCACTAGTGGTAGTGACCTTG - 21540
 - T K R T C L F S Y Y F L L S L V V V T L
 - L N E H V Y F L I I S Y S H * W * * P *
 - * T N M F I F L L F L T L T S G S D L D
 21541 - ACCGGTGCACCACTTTTGATGATGTTCAAGCTCCTAATTACACTCAACATACTTCATCTA - 21600
 - T G A P L L M M F K L L I T L N I L H L
 - P V H H F * * C S S S * L H S T Y F I Y
 - R C T T F D D V Q A P N Y T Q H T S S M
 21601 - TGAGGGGGGTTTACTATCCTGATGAAATTTTGTAGATCAGACACTCTTTATTTAACTCAGG - 21660
 - * G G F T I L M K F L D Q T L F I * L R
 - E G G L L S * * N F * I R H S L F N S G
 - R G V Y Y P D E I F R S D T L Y L T Q D
 21661 - ATTTATTTCTTCCATTTTATTCTAATGTTACAGGGTTTCATACTATTAATCATACGTTTG - 21720
 - I Y F F H F I L M L Q G F I L L I I R L
 - F I S S I L F * C Y R V S Y Y * S Y V W
 - L F L P F Y S N V T G F H T I N H T F G
 21721 - GCAACCCTGTCATACCTTTTAAGGATGGTATTTATTTTGCTGCCACAGAGAAATCAAATG - 21780
 - A T L S Y L L R M V F I L L P Q R N Q M
 - Q P C H T F * G W Y L F C C H R E I K C
 - N P V I P F K D G I Y F A A T E K S N V
 21781 - TTGTCCGTGGTGGGTTTTGGTTCTACCATGAACAACAAGTCACAGTCGGTGATTATTA - 21840
 - L S V V G F L V L P * T T S H S R * L L
 - C P W L G F W F Y H E Q Q V T V G D Y Y
 - V R G W V F G S T M N N K S Q S V I I I

FIG. 11 Con't

21841 - TTAACAATTCTACTAATGTTGTTATACGAGCATGTAACCTTTGAATTGTGTGACAACCCCTT - 21900
 - L T I L L M L L Y E H V T L N C V T T L
 - * Q F Y * C C Y T S M * L * I V * Q P F
 - N N S T N V V I R A C N F E L C D N P F
 21901 - TCTTTGCTGTTTCTAAACCCATGGGTACACAGACACATACTATGATATTCGATAATGCAT - 21960
 - S L L F L N P W V H R H I L * Y S I M H
 - L C C F * T H G Y T D T Y Y D I R * C I
 - F A V S K P M G T Q T H T M I F D N A F
 21961 - TTAATTGCACTTTTCGAGTACATATCTGATGCCTTTTCGCTTGATGTTTCAGAAAAGTCAG - 22020
 - L I A L S S T Y L M P F R L M F Q K S Q
 - * L H F R V H I * C L F A * C F R K V R
 - N C T F E Y I S D A F S L D V S E K S G
 22021 - GTAATTTTAAACACTTACGAGAGTTTGTGTTTAAAAATAAAGATGGGTTTCTCTATGTTT - 22080
 - V I L N T Y E S L C L K I K M G F S M F
 - * F * T L T R V C V * K * R W V S L C L
 - N F K H L R E F V F K N K D G F L Y V Y
 22081 - ATAAGGGCTATCAACCTATAGATGTAGTTCGTGATCTACCTTCTGGTTTAAACACTTTGA - 22140
 - I R A I N L * M * F V I Y L L V L T L *
 - * G L S T Y R C S S * S T F W F * H F E
 - K G Y Q P I D V V R D L P S G F N T L K
 22141 - AACCTATTTTAAAGTTGCCTCTTGGTATTAACATTACAAATTTTAGAGCCATTCTTACAG - 22200
 - N L F L S C L L V L T L Q I L E P F L Q
 - T Y F * V A S W Y * H Y K F * S H S Y S
 - P I F K L P L G I N I T N F R A I L T A
 22201 - CCTTTTCACCTGCTCAAGACATTTGGGGCACGTCAGCTGCAGCCTATTTTGTGGCTATT - 22260
 - P F H L L K T F G A R Q L Q P I L L A I
 - L F T C S R H L G H V S C S L F C W L F
 - F S P A Q D I W G T S A A A Y F V G Y L
 22261 - TAAAGCCAACTACATTTATGCTCAAGTATGATGAAAATGGTACAATCACAGATGCTGTTG - 22320
 - * S Q L H L C S S M M K M V Q S Q M L L
 - K A N Y I Y A Q V * * K W Y N H R C C *
 - K P T T F M L K Y D E N G T I T D A V D
 22321 - ATTGTTCTCAAAATCCACTTGCTGAACCTCAATGCTCTGTTAAGAGCTTTGAGATTGACA - 22380
 - I V L K I H L L N S N A L L R A L R L T
 - L F S K S T C * T Q M L C * E L * D * Q
 - C S Q N P L A E L K C S V K S F E I D K
 22381 - AAGGAATTTACCAGACCTCTAATTTTCAGGGTTGTTCCCTCAGGAGATGTTGTGAGATTCC - 22440
 - K E F T R P L I S G L F P Q E M L * D S
 - R N L P D L * F Q G C S L R R C C E I P
 - G I Y Q T S N F R V V P S G D V V R F P
 22441 - CTAATATTACAACTTGTGTCCTTTTGGAGAGGTTTTTAATGCTACTAAATTCCTTCTG - 22500
 - L I L Q T C V L L E R F L M L L N S L L
 - * Y Y K L V S F W R G F * C Y * I P F C
 - N I T N L C P F G E V F N A T K F P S V
 22501 - TCTATGCATGGGAGAGAAAAAATTTCTAATTGTGTTGCTGATTACTCTGTGCTCTACA - 22560
 - S M H G R E K K F L I V L L I T L C S T
 - L C M G E K K N F * L C C * L L C A L Q
 - Y A W E R K K I S N C V A D Y S V L Y N
 22561 - ACTCAACATTTTTTTCAACCTTTAAGTGCTATGGCGTTTCTGCCACTAAGTTGAATGATC - 22620
 - T Q H F F Q P L S A M A F L P L S * M I
 - L N I F F N L * V L W R F C H * V E * S
 - S T F F S T F K C Y G V S A T K L N D L
 22621 - TTTGCTTCTCCAATGTCTATGCAGATTCTTTTGTAGTCAAGGGAGATGATGTAAGACAAA - 22680
 - F A S P M S M Q I L L * S R E M M * D K
 - L L L Q C L C R F F C S Q G R * C K T N
 - C F S N V Y A D S F V V K G D D V R Q I

FIG. 11 Con't

22681 - TAGCGCCAGGACAAACTGGTGTTATTGCTGATTATAATTATAAATTGCCAGATGATTTC - 22740
 - * R Q D K L V L L L I I I I N C Q M I S
 - S A R T N W C Y C * L * L * I A R * F H
 - A P G Q T G V I A D Y N Y K L P D D F M
 22741 - TGGGTTGTGTCCTTGCTTGAATACTAGGAACATTGATGCTACTTCAACTGGTAATTATA - 22800
 - W V V S L L G I L G T L M L L Q L V I I
 - G L C P C L E Y * E H * C Y F N W * L *
 - G C V L A W N T R N I D A T S T G N Y N
 22801 - ATTATAAATATAGGTATCTTAGACATGGCAAGCTTAGGCCCTTTGAGAGAGACATATCTA - 22860
 - I I N I G I L D M A S L G P L R E T Y L
 - L * I * V S * T W Q A * A L * E R H I *
 - Y K Y R Y L R H G K L R P F E R D I S N
 22861 - ATGTGCCTTTCTCCCCTGATGGCAAACCTTGACCCCCACCTGCTCTTAATTGTTATTGGC - 22920
 - M C L S P L M A N L A P H L L L I V I G
 - C A F L P * W Q T L H P T C S * L L L A
 - V P F S P D G K P C T P P A L N C Y W P
 22921 - CATTAAATGATTATGGTTTTTACACCACTACTGGCATTGGCTACCAACCTTACAGAGTTG - 22980
 - H * M I M V F T P L L A L A T N L T E L
 - I K * L W F L H Y W H W L P T L Q S C
 - L N D Y G F Y T T T G I G Y Q P Y R V V
 22981 - TAGTACTTTCTTTTGAACTTTTAAATGCACCGGCCACGGTTTGTGGACCAAAATTATCCA - 23040
 - * Y F L L N F * M H R P R F V D Q N Y P
 - S T F F * T F K C T G H G L W T K I I H
 - V L S F E L L N A P A T V C G P K L S T
 23041 - CTGACCTTATTAAGAACCAGTGTGTCAATTTTAATTTTAATGGACTCACTGGTACTGGTG - 23100
 - L T L L R T S V S I L I L M D S L V L V
 - * P Y * E P V C Q F * F * W T H W Y W C
 - D L I K N Q C V N F N F N G L T G T G V
 23101 - TGTAACTCCTTCTTCAAAGAGATTTCAACCATTTCACAATTTGGCCGTGATGTTTCTG - 23160
 - C * L L L Q R D F N H F N N L A V M F L
 - V N S F F K E I S T I S T I W P * C F *
 - L T P S S K R F Q P F Q Q F G R D V S D
 23161 - ATTTCACTGATTCCGTTCGAGATCCTAAAACATCTGAAATATTAGACATTTACCTTGCT - 23220
 - I S L I P F E I L K H L K Y * T F H L A
 - F H * F R S R S * N I * N I R H F T L L
 - F T D S V R D P K T S E I L D I S P C S
 23221 - CTTTTGGGGGTGTAAGTGTAAATTACACCTGGAACAAATGCTTCATCTGAAGTTGCTGTT - 23280
 - L L G V * V * L H L E Q M L H L K L F
 - F W G C K C N Y T W N K C F I * S C C S
 - F G G V S V I T P G T N A S S E V A V L
 23281 - TATATCAAGATGTAACTGCACTGATGTTTCTACAGCAATTCATGCAGATCAACTCACAC - 23340
 - Y I K M L T A L M F L Q Q F M Q I N S H
 - I S R C * L H * C F Y S N S C R S T H T
 - Y Q D V N C T D V S T A I H A D Q L T P
 23341 - CAGCTTGGCGCATATATTCTACTGGAAACAATGTATTCCAGACTCAAGCAGGCTGTCTTA - 23400
 - Q L G A Y I L L E T M Y S R L K Q A V L
 - S L A H I F Y W K Q C I P D S S R L S Y
 - A W R I Y S T G N N V F Q T Q A G C L I
 23401 - TAGGAGCTGAGCATGTGACACTTCTTATGAGTGCGACATTCTATTGGAGCTGGCATT - 23460
 - * E L S M S T L L M S A T F L L E L A F
 - R S * A C R H F L * V R H S Y W S W H L
 - G A E H V D T S Y E C D I P I G A G I C
 23461 - GTGCTAGTTACCATACAGTTTCTTTATTACGTAGTACTAGCCAAAAATCTATTGTGGCTT - 23520
 - V L V T I Q F L Y Y V V L A K N L L W L
 - C * L P Y S F F I T * Y * P K I Y C G L
 - A S Y H T V S L L R S T S Q K S I V A Y

FIG. 11 Con't

23521 - ATACTATGTCTTTAGGTGCTGATAGTTCAATTGCTTACTCTAATAACACCATTGCTATAC - 23580
 - I L C L * V L I V Q L L T L I T P L L Y
 - Y Y V F R C * * F N C L L * * H H C Y T
 - T M S L G A D S S I A Y S N N T I A I P
 23581 - CTACTAACTTTTCAATTAGCATTACTACAGAAGTAATGCCTGTTTCTATGGCTAAAACCT - 23640
 - L L T F Q L A L L Q K * C L F L W L K P
 - Y * L F N * H Y Y R S N A C F Y G * N L
 - T N F S I S I T T E V M P V S M A K T S
 23641 - CCGTAGATTGTAATATGTACATCTGCGGAGATTCTACTGAATGTGCTAATTTGCTTCTCC - 23700
 - P * I V I C T S A E I L L N V L I C F S
 - R R L * Y V H L R R F Y * M C * F A S P
 - V D C N M Y I C G D S T E C A N L L L Q
 23701 - AATATGGTAGCTTTTGCACACAATAATCGTGCACTCTCAGGTATTGCTGCTGAACAGG - 23760
 - N M V A F A H N * I V H S Q V L L L N R
 - I W * L L H T T K S C T L R Y C C * T G
 - Y G S F C T Q L N R A L S G I A A E Q D
 23761 - ATCGCAACACACGTGAAGTGTCGCTCAAGTCAAACAAATGTACAAAACCCCAACTTTGA - 23820
 - I A T H V K C S L K S N K C T K P Q L *
 - S Q H T * S V R S S Q T N V Q N P N F E
 - R N T R E V F A Q V K Q M Y K T P T L K
 23821 - AATATTTTGGTGGTTTTAATTTTTTACAAATATTACCTGACCCTCTAAAGCCAACTAAGA - 23880
 - N I L V V L I F H K Y Y L T L * S Q L R
 - I F W W F * F F T N I T * P S K A N * E
 - Y F G G F N F S Q I L P D P L K P T K R
 23881 - GGTCTTTTATTGAGGACTTGCTCTTTAATAAGGTGACACTCGCTGATGCTGGCTTCATGA - 23940
 - G L L L R T C S L I R * H S L M L A S *
 - V F Y * G L A L * * G D T R * C W L H E
 - S F I E D L L F N K V T L A D A G F M K
 23941 - AGCAATATGGCGAATGCCTAGGTGATATTAATGCTAGAGATCTCATTGTGCGCAGAAGT - 24000
 - S N M A N A * V I L M L E I S F V R R S
 - A I W R M P R * Y * C * R S H L C A E V
 - Q Y G E C L G D I N A R D L I C A Q K F
 24001 - TCAATGGACTTACAGTGTGCCACCTCTGCTCACTGATGATATGATTGCTGCCTACACTG - 24060
 - S M D L Q C C H L C S L M I * L L P T L
 - Q W T Y S V A T S A H * * Y D C C L H C
 - N G L T V L P P L L T D D M I A A Y T A
 24061 - CTGCTCTAGTTAGTGGTACTGCCACTGCTGGATGGACATTTGGTGTGGCGCTGCTCTTC - 24120
 - L L * L V V L P L L D G H L V L A L L F
 - C S S * W Y C H C W M D I W C W R C S S
 - A L V S G T A T A G W T F G A G A A L Q
 24121 - AAATACCTTTTGCTATGCAAATGGCATATAGGTTCAATGGCATTGGAGTTACCCAAAATG - 24180
 - K Y L L L C K W H I G S M A L E L P K M
 - N T F C Y A N G I * V Q W H W S Y P K C
 - I P F A M Q M A Y R F N G I G V T Q N V
 24181 - TTCTCTATGAGAACCAAAAACAAATCGCCAACCAATTTAACAAGGCGATTAGTCAAATTC - 24240
 - F S M R T K N K S P T N L T R R L V K F
 - S L * E P K T N R Q P I * Q G D * S N S
 - L Y E N Q K Q I A N Q F N K A I S Q I Q
 24241 - AAGAATCACTTACAACAACATCAACTGCATTGGGCAAGCTGCAAGACGTTGTTAACCAGA - 24300
 - K N H L Q Q H Q L H W A S C K T L L T R
 - R I T Y N N I N C I G Q A A R R C * P E
 - E S L T T T S T A L G K L Q D V V N Q N
 24301 - ATGCTCAAGCATTAAACACACTTGTAAACAACCTTAGCTCTAATTTTGGTGAATTTCAA - 24360
 - M L K H * T H L L N N L A L I L V Q F Q
 - C S S I K H T C * T T * L * F W C N F K
 - A Q A L N T L V K Q L S S N F G A I S S

FIG. 11 Con't

24361 - GTGTGCTAAATGATATCCTTTTCGCGACTTGATAAAGTCGAGGCGGAGGTACAAATTGACA - 24420
 - V C * M I S F R D L I K S R R R Y K L T
 - C A K * Y P F A T * * S R G G G T N * Q
 - V L N D I L S R L D K V E A E V Q I D R
 24421 - GGTTAATTACAGGCAGACTTCAAAGCCTTCAAACCTATGTAACACAACAACTAATCAGGG - 24480
 - G * L Q A D F K A F K P M * H N N * S G
 - V N Y R Q T S K P S N L C N T T T N Q G
 - L I T G R L Q S L Q T Y V T Q Q L I R A
 24481 - CTGCTGAAATCAGGGCTTCTGCTAATCTTGCTGCTACTAAAATGTCTGAGTGTGTTCTTG - 24540
 - L L K S G L L L I L L L L K C L S V F L
 - C * N Q G F C * S C C Y * N V * V C S W
 - A E I R A S A N L A A T K M S E C V L G
 24541 - GACAATCAAAAAGAGTTGACTTTTGTGGAAAGGGCTACCACCTTATGTCCTTCCCACAAG - 24600
 - D N Q K E L T F V E R A T T L C P S H K
 - T I K K S * L L W K G L P P Y V L P T S
 - Q S K R V D F C G K G Y H L M S F P Q A
 24601 - CAGCCCCGCATGGTGTGCTTCTTCTACATGTCACGTATGTGCCATCCCAGGAGAGGAAGT - 24660
 - Q P R M V L S S Y M S R M C H P R R G T
 - S P A W C C L P T C H V C A I P G E E L
 - A P H G V V F L H V T Y V P S Q E R N F
 24661 - TCACCACAGCGCCAGCAATTTGTCTATGAAGGCAAAGCATACTTCCCTCGTGAAGGTGTTT - 24720
 - S P Q R Q Q F V M K A K H T S L V K V F
 - H H S A S N L S * R Q S I L P S * R C F
 - T T A P A I C H E G K A Y F P R E G V F
 24721 - TTGTGTTTAATGGCACTTCTTGGTTTATTACACAGAGGAAGTCTTTTCTCCACAAATAA - 24780
 - L C L M A L L G L L H R G T S F L H K *
 - C V * W H F L V Y Y T E E L L F S T N N
 - V F N G T S W F I T Q R N F F S P Q I I
 24781 - TTACTACAGACAATACATTTGTCTCAGGAAATTGTGATGTCGTTATTGGCATCATTAACA - 24840
 - L L Q T I H L S Q E I V M S L L A S L T
 - Y Y R Q Y I C L R K L * C R Y W H H * Q
 - T T D N T F V S G N C D V V I G I I N N
 24841 - ACACAGTTTATGATCCTCTGCAACCTGAGCTTGACTCATTCAAAGAAGAGCTGGACAAGT - 24900
 - T Q F M I L C N L S L T H S K K S W T S
 - H S L * S S A T * A * L I Q R R A G Q V
 - T V Y D P L Q P E L D S F K E E L D K Y
 24901 - ACTTCAAAAATCATAACATCACCAGATGTTGATCTTGGCGACATTTACAGGCATTAACGCTT - 24960
 - T S K I I H H Q M L I L A T F Q A L T L
 - L Q K S Y I T R C * S W R H F R H * R F
 - F K N H T S P D V D L G D I S G I N A S
 24961 - CTGTCGTCAACATTCAAAAAGAAATTGACCGCTCAATGAGGTCGCTAAAAATTTAAATG - 25020
 - L S S T F K K K L T A S M R S L K I * M
 - C R Q H S K R N * P P Q * G R * K F K *
 - V V N I Q K E I D R L N E V A K N L N E
 25021 - AATCACTCATTGACCTTCAAGAATTGGGAAAATATGAGCAATATATTAATGGCCTTGGT - 25080
 - N H S L T F K N W E N M S N I L N G L G
 - I T H * P S R I G K I * A I Y * M A L V
 - S L I D L Q E L G K Y E Q Y I K W P W Y
 25081 - ATGTTTGGCTCGGCTTCATTGCTGGACTAATTGCCATCGTCATGGTTACAATCTTGCTTT - 25140
 - M F G S A S L L D * L P S S W L Q S C F
 - C L A R L H C W T N C H R H G Y N L A L
 - V W L G F I A G L I A I V M V T I L L C
 25141 - GTTGCATGACTAGTTGTTGCAGTTGCCTCAAGGGTGCATGCTCTTGTGGTTCTTGCTGCA - 25200
 - V A * L V V A V A S R V H A L V V L A A
 - L H D * L L Q L P Q G C M L L W F L L Q
 - C M T S C C S C L K G A C S C G S C C K

FIG. 11 Con't

25201 - AGTTTGATGAGGATGACTCTGAGCCAGTTCTCAAGGGTGTCAAATTACATTACACATAAA - 25260
 - S L M R M T L S Q F S R V S N Y I T H K
 - V * * G * L * A S S Q G C Q I T L H I N
 - F D E D D S E P V L K G V K L H Y T * T
 25261 - CGAACTTATGGATTTGTTTATGAGATTTTTACTCTTGGATCAATTACTGCACAGCCAGT - 25320
 - R T Y G F V Y E I F Y S W I N Y C T A S
 - E L M D L F M R F F T L G S I T A Q P V
 - N L W I C L * D F L L L D Q L L H S Q *
 25321 - AAAAATTGACAATGCTTCTCCTGCAAGTACTGTTTCATGCTACAGCAACGATACCGCTACA - 25380
 - K N * Q C F S C K Y C S C Y S N D T A T
 - K I D N A S P A S T V H A T A T I P L Q
 - K L T M L L L Q V L F M L Q Q R Y R Y K
 25381 - AGCCTCACTCCCTTTTCGGATGGCTTGTTATTGGCGTTGCATTTCTTGCTGTTTTTCAGAG - 25440
 - S L T P F R M A C Y W R C I S C C F S E
 - A S L P F G W L V I G V A F L A V F Q S
 - P H S L S D G L L L A L H F L L F F R A
 25441 - CGCTACCAAAATAATTGCGCTCAATAAAAGATGGCAGCTAGCCCTTTATAAGGGCTTCCA - 25500
 - R Y Q N N C A Q * K M A A S P L * G L P
 - A T K I I A L S N K R W Q L A L Y K G F Q
 - L P K * L R S I K D G S * P F I R A S S
 25501 - GTTCATTTGCAATTTACTGCTGCTATTTGTTACCATCTATTCACATCTTTTGCTTGTCGC - 25560
 - V H L Q F T A A I C Y H L F T S F A C R
 - F I C N L L L L F V T I Y S H L L L V A
 - S F A I Y C C Y L L P S I H I F C L S L
 25561 - TGCAGGTAAGGAGGCGCAATTTTTGTACCTCTATGCCTTGATATATTTTCTACAATGCAT - 25620
 - C R * G G A I F V P L C L D I F S T M H
 - A G K E A Q F L Y L Y A L I Y F L Q C I
 - Q V R R R N F C T S M P * Y I F Y N A S
 25621 - CAACGCATGTAGAATTATTATGAGATGTTGGCTTTGTTGGAAGTGCAATCCAAGAACCC - 25680
 - Q R M * N Y Y E M L A L L E V Q I Q E P
 - N A C R I I M R C W L C W K C K S K N P
 - T H V E L L * D V G F V G S A N P R T H
 25681 - ATTACTTTATGATGCCAACTACTTTGTTTGCTGGCACACACATAACTATGACTACTGTAT - 25740
 - I T L * C Q L L C L L A H T * L * L L Y
 - L L Y D A N Y F V C W H T H N Y D Y C I
 - Y F M M P T T L F A G T H I T M T T V Y
 25741 - ACCATATAACAGTGTACAGATACAATTGTCGTTACTGAAGGTGACGGCATTTC AACACC - 25800
 - T I * Q C H R Y N C R Y * R * R H F N T
 - P Y N S V T D T I V V T E G D G I S T P
 - H I T V S Q I Q L S L L K V T A F Q H Q
 25801 - AAAACTCAAAGAAGACTACCAAATTGGTGGTTATTCTGAGGATAGGCACTCAGGTGTAA - 25860
 - K T Q R R L P N W W L F * G * A L R C *
 - K L K E D Y Q I G G Y S E D R H S G V K
 - N S K K T T K L V V I L R I G T Q V L K
 25861 - AGACTATGTCGTTGTACATGGCTATTTACCGAAGTTTACTACCAGCTTGAGTCTACACA - 25920
 - R L C R C T W L F H R S L L P A * V Y T
 - D Y V V V H G Y F T E V Y Y Q L E S T Q
 - T M S L Y M A I S P K F T T S L S L H K
 25921 - AATTACTACAGACACTGGTATTGAAAATGCTACATTCTTCATCTTTAACAAGCTTGTTAA - 25980
 - N Y Y R H W Y * K C Y I L H L * Q A C *
 - I T T D T G I E N A T F F I F N K L V K
 - L L Q T L V L K M L H S S S L T S L L K
 25981 - AGACCCACCGAATGTGCAAATACACACAATCGACGGCTCTTCAGGAGTTGCTAATCCAGC - 26040
 - R P T E C A N T H N R R L F R S C * S S
 - D P P N V Q I H T I D G S S G V A N P A
 - T H R M C K Y T Q S T A L Q E L L I Q Q

FIG. 11 Con't

26041 - AATGGATCCAATTTATGATGAGCCGACGACGACTACTAGCGTGCCTTTGTAAGCACAAGA - 26100
 - N G S N L * * A D D D Y * R A F V S T R
 - M D P I Y D E P T T T T S V P L * A Q E
 - W I Q F M M S R R R L L A C L C K H K K
 26101 - AAGTGAGTACGAACTTATGTACTCATTCGTTTCGGAAGAAACAGGTACGTTAATAGTTAA - 26160
 - K * V R T Y V L I R F G R N R Y V N S *
 - S E Y E L M Y S F V S E E T G T L I V N
 - V S T N L C T H S F R K K Q V R * * L I
 26161 - TAGCGTACTTCTTTTCTTGCTTTCGTTGCTAGTCACACTAGCCATCCTTAC - 26220
 - * R T S F S C F R G I L A S H T S H P Y
 - S V L L F L A F V V F L L V T L A I L T
 - A Y F F F L L S W Y S C * S H * P S L L
 26221 - TGCCTTCGATTGTGTGCGTACTGCTGCAATATTGTTAACGTGAGTTTAGTAAAACCAAC - 26280
 - C A S I V C V L L Q Y C * R E F S K T N
 - A L R L C A Y C C N I V N V S L V K P T
 - R F D C V R T A A I L L T * V * * N Q R
 26281 - GGTTCACGTCTACTCGCGTGTTAAAAATCTGAACTCTTCTGAAGGAGTTCCTGATCTTCT - 26340
 - G L R L L A C * K S E L F * R S S * S S
 - V Y V Y S R V K N L N S S E G V P D L L
 - F T S T R V L K I * T L L K E F L I F W
 26341 - GGTCTAAACGAACTAACTATTATTATTCTGTTTGAAGTCTTAACATTGCTTATCATG - 26400
 - G L N E L T I I I I L F G T L T L L I M
 - V * T N * L L L L F C L E L * H C L S W
 - S K R T N Y Y Y Y S V W N F N I A Y H G
 26401 - GCAGACAACGGTACTATTACCGTTGAGGAGCTTAAACAACCTCTGGAACAATGGAACCTA - 26460
 - A D N G T I T V E E L K Q L L E Q W N L
 - Q T T V L L P L R S L N N S W N N G T *
 - R Q R Y Y Y R * G A * T T P G T M E P S
 26461 - GTAATAGGTTTCCTATTCCTAGCCTGGATTATGTTACTACAATTTGCCTATTCTAATCGG - 26520
 - V I G F L F L A W I M L L Q F A Y S N R
 - * * V S Y S * P G L C Y Y N L P I L I G
 - N R F P I P S L D Y V T T I C L F * S E
 26521 - AACAGGTTTTGTACATAATAAAGCTTGTTTTCTCTGGCTCTTGTGGCCAGTAACACTT - 26580
 - N R F L Y I I K L V F L W L L W P V T L
 - T G F C T * * S L F S S G S C G Q * H L
 - Q V F V H N K A C F P L A L V A S N T C
 26581 - GCTTGTTTTGTGCTTGCTGTTGTCTACAGAATTAATTGGGTGACTGGCGGGATTGCGATT - 26640
 - A C F V L A V V Y R I N W V T G G I A I
 - L V L C L L L S T E L I G * L A G L R L
 - L F C A C C C L Q N * L G D W R D C D C
 26641 - GCAATGGCTTGATTGTAGGCTTGATGTGGCTTAGCTACTTCGTTGCTTCCTTCAGGCTG - 26700
 - A M A C I V G L M W L S Y F V A S F R L
 - Q W L V L * A * C G L A T S L L P S G C
 - N G L Y C R L D V A * L L R C F L Q A V
 26701 - TTTGCTCGTACCCGCTCAATGTGGTCATTCAACCCAGAAACAAACATTCTTCTCAATGTG - 26760
 - F A R T R S M W S F N P E T N I L L N V
 - L L V P A Q C G H S T Q K Q T F F S M C
 - C S Y P L N V V I Q P R N K H S S Q C A
 26761 - CCTCTCCGGGGGACAATTGTGACCAGACCGCTCATGGAAAGTGAACCTGTGATTGGTGCT - 26820
 - P L R G T I V T R P L M E S E L V I G A
 - L S G G Q L * P D R S W K V N L S L V L
 - S P G D N C D Q T A H G K * T C H W C C
 26821 - GTGATCATTCGTGGTCACTTGCGAATGGCCGGACACTCCCTAGGGCGCTGTGACATTAAG - 26880
 - V I I R G H L R M A G H S L G R C D I K
 - * S F V V T C E W P D T P * G A V T L R
 - D H S W S L A N G R T L P R A L * H * G

FIG. 11 Con't

26881 - GACCTGCCAAAAGAGATCACTGTGGCTACATCACGAACGCTTTCTTATTACAAATTAGGA - 26940
 - D L P K E I T V A T S R T L S Y Y K L G
 - T C Q K R S L W L H H E R F L I T N * E
 - P A K R D H C G Y I T N A F L L Q I R S
 26941 - GCGTCGCAGCGTGTAGGCACTGATTTCAGGTTTGTGCTGCATACAACCGCTACCGTATTGGA - 27000
 - A S Q R V G T D S G F A A Y N R Y R I G
 - R R S V * A L I Q V L L H T T A T V L E
 - V A A C R H * F R F C C I Q P L P Y W K
 27001 - AACTATAAATTAATAACAGACCACGCCGGTAGCAACGACAATATTGCTTTGCTAGTACAG - 27060
 - N Y K L N T D H A G S N D N I A L L V Q
 - T I N * I Q T T P V A T T I L L C * Y S
 - L * I K Y R P R R * Q R Q Y C F A S T V
 27061 - TAAGTGACAACAGATGTTTCATCTTGTGACTTCCAGGTTACAATAGCAGAGATATTGAT - 27120
 - * V T T D V S S C * L P G Y N S R D I D
 - K * Q Q M F H L V D F Q V T I A E I L I
 - S D N R C F I L L T S R L Q * Q R Y * L
 27121 - TATCATTATGAGGACTTTCAGGATTGCTATTTGGAATCTTGACGTTATAATAAGTTCAAT - 27180
 - Y H Y E D F Q D C Y L E S * R Y N K F N
 - I I M R T F R I A I W N L D V I I S S I
 - S L * G L S G L L F G I L T L * * V Q *
 27181 - AGTGAGACAATTATTTAAGCCTCTAACTAAGAAGAATTATTCGGAGTTAGATGATGAAGA - 27240
 - S E T I I * A S N * E E L F G V R * * R
 - V R Q L F K P L T K K N Y S E L D D E E
 - * D N Y L S L * L R R I I R S * M M K N
 27241 - ACCTATGGAGTTAGATTATCCATAAAACGAACATGAAAATTATTCTCTTCCTGACATTGA - 27300
 - T Y G V R L S I K R T * K L F S S * H *
 - P M E L D Y P * N E H E N Y S L P D I D
 - L W S * I I H K T N M K I I L F L T L I
 27301 - TTGTATTTACATCTTGCGAGCTATATCACTATCAGGAGTGTGTTAGAGGTACGACTGTAC - 27360
 - L Y L H L A S Y I T I R S V L E V R L Y
 - C I Y I L R A I S L S G V C * R Y D C T
 - V F T S C E L Y H Y Q E C V R G T T V L
 27361 - TACTAAAAGAACCTTGCCCATCAGGAACATACGAGGGCAATTCACCATTTACCCTCTTG - 27420
 - Y * K N L A H Q E H T R A I H H F T L L
 - T K R T L P I R N I R G Q F T I S P S C
 - L K E P C P S G T Y E G N S P F H P L A
 27421 - CTGACAATAAATTTGCACTAACTTGCACTAGCACACACTTTGCTTTTGCTTGTGCTGACG - 27480
 - L T I N L H * L A L A H T L L L L V L T
 - * Q * I C T N L H * H T L C F C L C * R
 - D N K F A L T C T S T H F A F A C A D G
 27481 - GTACTCGACATACCTATCAGCTGCGTGCAAGATCAGTTTCACCAAACTTTTCATCAGAC - 27540
 - V L D I P I S C V Q D Q F H Q N F S S D
 - Y S T Y L S A A C K I S F T K T F H Q T
 - T R H T Y Q L R A R S V S P K L F I R Q
 27541 - AAGAGGAGGTTCAACAAGAGCTCTACTCGCCACTTTTTCTCATTGTTGCTGCTCTAGTAT - 27600
 - K R R F N K S S T R H F F S L L L L * Y
 - R G G S T R A L L A T F F S H C C C S S I
 - E E V Q Q E L Y S P L F L I V A A L V F
 27601 - TTTTAATACTTTGCTTCAACCATTAAGAGAAAGACAGAATGAATGAGCTCACTTTAATTGA - 27660
 - F * Y F A S P L R E R Q N E * A H F N *
 - F N T L L H H * E K D R M N E L T L I D
 - L I L C F T I K R K T E * M S S L * L T
 27661 - CTTCTATTTGTGCTTTTTAGCCTTTCTGCTATTCCTTGTTTTAATAATGCTTATTATATT - 27720
 - L L F V L F S L S A I P C F N N A Y Y I
 - F Y L C F L A F L L F L V L I M L I I F
 - S I C A F * P F C Y S L F * * C L L Y F

FIG. 11 Con't

27721 - TTGGTTTTCTACTCGAAATCCAGGATCTAGAAGAACCTTGTACCAAAGTCTAAACGAACAT - 27780
 - L V F T R N P G S R R T L Y Q S L N E H
 - W F S L E I Q D L E E P C T K V * T N M
 - G F H S K S R I * K N L V P K S K R T *
 27781 - GAAACTTCTCATTGTTTTGACTTGTATTTCTCTATGCAGTTGCATATGCACTGTAGTACA - 27840
 - E T S H C F D L Y F S M Q L H M H C S T
 - K L L I V L T C I S L C S C I C T V V Q
 - N F S L F * L V F L Y A V A Y A L * Y S
 27841 - GCGCTGTGCATCTAATAAACCTCATGTGCTTGAAGATCCTTGTAAGGTACAACACTAGGG - 27900
 - A L C I * * T S C A * R S L * G T T L G
 - R C A S N K P H V L E D P C K V Q H * G
 - A V H L I N L M C L K I L V R Y N T R G
 27901 - GTAATACTTATAGCACTGCTTGGCTTTGTGCTCTAGGAAAGGTTTTACCTTTTCATAGAT - 27960
 - V I L I A L L G F V L * E R F Y L F I D
 - * Y L * H C L A L C S R K G F T F S * M
 - N T Y S T A W L C A L G K V L P F H R W
 27961 - GGCACACTATGGTTCAAACATGCACACCTAATGTTACTATCAACTGTCAAGATCCAGCTG - 28020
 - G T L W F K H A H L M L L S T V K I Q L
 - A H Y G S N M H T * C Y Y Q L S R S S W
 - H T M V Q T C T P N V T I N C Q D P A G
 28021 - GTGGTGCCTTATAGCTAGGTGTTGGTACCTTCATGAAGGTCACCAAAGTCTGCATTTA - 28080
 - V V R L * L G V G T F M K V T K L L H L
 - W C A Y S * V L V P S * R S P N C C I *
 - G A L I A R C W Y L H E G H Q T A A F R
 28081 - GAGACGTACTTGTGTTTTAAATAAACGAACAAATTAATGTCTGATAATGGACCCCAA - 28140
 - E T Y L L F * I N E Q I K M S D N G P Q
 - R R T C C F K * T N K L K C L I M D P N
 - D V L V V L N K R T N * N V * * W T P I
 28141 - TCAAACCAACGTAGTCCCCCGCATTACATTTGGTGGACCCACAGATTCAACTGACAAT - 28200
 - S N Q R S A P R I T F G G P T D S T D N
 - Q T N V V P P A L H L V D P Q I Q L T I
 - K P T * C P P H Y I W W T H R F N * Q *
 28201 - AACCAGAATGGAGGACGCAATGGGGCAAGGCCAAAACAGCGCCGACCCCAAGGTTTACCC - 28260
 - N Q N G G R N G A R P K Q R R P Q G L P
 - T R M E D A M G Q G Q N S A D P K V Y P
 - P E W R T Q W G K A K T A P T P R F T Q
 28261 - AATAATACTGCGTCTTGGTTACAGCTCTCACTCAGCATGGCAAGGAGGAACCTTAGATTC - 28320
 - N N T A S W F T A L T Q H G K E E L R F
 - I I L R L G S Q L S L S M A R R N L D S
 - * Y C V L V H S S H S A W Q G G T * I P
 28321 - CCTCGAGGCCAGGGCGTTCCAATCAACACCAATAGTGGTCCAGATGACCAAATTGGCTAC - 28380
 - P R G Q G V P I N T N S G P D D Q I G Y
 - L E A R A F Q S T P I V V Q M T K L A T
 - S R P G R S N Q H Q * W S R * P N W L L
 28381 - TACCGAAGAGCTACCCGACGAGTTCGTGGTGGTGACGGCAAAATGAAAGAGCTCAGCCCC - 28440
 - Y R R A T R R V R G G D G K M K E L S P
 - T E E L P D E F V V T A K * K S S A P
 - P K S Y P T S S W W * R Q N E R A Q P Q
 28441 - AGATGGTACTTCTATTACCTAGGAACTGGCCAGAAGCTTCACTTCCCTACGGCGCTAAC - 28500
 - R W Y F Y Y L G T G P E A S L P Y G A N
 - D G T S I T * E L A Q K L H F P T A L T
 - M V L L L P R N W P R S F T S L R R * Q
 28501 - AAAGAAGGCATCGTATGGGTTGCAACTGAGGGAGCCTTGAATACACCCAAAGACCACATT - 28560
 - K E G I V W V A T E G A L N T P K D H I
 - K K A S Y G L Q L R E P * I H P K T T L
 - R R H R M G C N * G S L E Y T Q R P H W

FIG. 11 Con't

28561 - GGCACCCGCAATCCTAATAACAATGCTGCCACCGTGCTACAACCTCCTCAAGGAACAACA - 28620
 - G T R N P N N N A A T V L Q L P Q G T T
 - A P A I L I T M L P P C Y N F L K E Q H
 - H P Q S * * Q C C H R A T T S S R N N I
 28621 - TTGCCAAAAGGCTTCTACGCAGAGGGAAGCAGAGGCGGCAGTCAAGCCTCTTCTCGCTCC - 28680
 - L P K G F Y A E G S R G G S Q A S S R S
 - C Q K A S T Q R E A E A A V K P L L A P
 - A K R L L R R G K Q R R Q S S L F S L L
 28681 - TCATCACGTAGTCGCGGTAATTCAAGAAATTCAACTCCTGGCAGCAGTAGGGGAAATTCT - 28740
 - S S R S R G N S R N S T P G S S R G N S
 - H H V V A V I Q E I Q L L A A V G E I L
 - I T * S R * F K K F N S W Q Q * G K F S
 28741 - CCTGCTCGAATGGCTAGCGGAGGTGGTGAAGTGCCTCGCGCTATTGCTGCTAGACAGA - 28800
 - P A R M A S G G G E T A L A L L L L D R
 - L L E W L A E V V K L P S R Y C C * T D
 - C S N G * R R W * N C P R A I A A R Q I
 28801 - TTGAACCAGCTTGAGAGCAAAGTTTCTGGTAAAGGCCAACAACAAGGCCAAACTGTC - 28860
 - L N Q L E S K V S G K G Q Q Q Q G Q T V
 - * T S L R A K F L V K A N N N K A K L S
 - E P A * E Q S F W * R P T T T R P N C H
 28861 - ACTAAGAAATCTGCTGCTGAGGCATCTAAAAAGCCTCGCCAAAACGTACTGCCACAAAA - 28920
 - T K K S A A E A S K K P R Q K R T A T K
 - L R N L L L R H L K S L A K N V L P Q N
 - * E I C C * G I * K A S P K T Y C H K T
 28921 - CAGTACAACGTCACTCAAGCATTGTTGGGAGACGTGGTCCAGAACAACCCAAGGAAATTTTC - 28980
 - Q Y N V T Q A F G R R G P E Q T Q G N F
 - S T T S L K H L G D V V Q N K P K E I S
 - V Q R H S S I W E T W S R T N P R K F R
 28981 - GGGGACCAAGACCTAATCAGACAAGGAAGTATTACAAACATTGGCCGCAAATTGCACAA - 29040
 - G D Q D L I R Q G T D Y K H W P Q I A Q
 - G T K T * S D K E L I T N I G R K L H N
 - G P R P N Q T R N * L Q T L A A N C T I
 29041 - TTTGCTCCAAGTGCCTCTGCATTCTTTGGAATGTACGCATTGGCATGGAAGTCACACCT - 29100
 - F A P S A S A F F G M S R I G M E V T P
 - L L Q V P L H S L E C H A L A W K S H L
 - C S K C L C I L W N V T H W H G S H T F
 29101 - TCGGGAACATGGCTGACTTATCATGGAGCCATTAAATTGGATGACAAAAGATCCACAATTC - 29160
 - S G T W L T Y H G A I K L D D K D P Q F
 - R E H G * L I M E P L N W M T K I H N S
 - G N M A D L S W S H * I G * Q R S T I Q
 29161 - AAAGACAACGTCATACTGCTGAACAAGCACATTGACGCATACAAAACATTCCCACCAACA - 29220
 - K D N V I L L N K H I D A Y K T F P P T
 - K T T S Y C * T S T L T H T K H S H Q Q
 - R Q R H T A A E Q A H * R I Q N I P T N R
 29221 - GAGCCTAAAAAGGACAAAAAGAAAAGACTGATGAAGCTCAGCCTTTGCCGAGAGACAA - 29280
 - E P K K D K K K K T D E A Q P L P Q R Q
 - S L K R T K R K R L M K L S L C R R D K
 - A * K G Q K E K D * * S S A F A A E T K
 29281 - AAGAAGCAGCCCACTGTGACTCTTCTCCTGCGGCTGACATGGATGATTCTCCAGACAA - 29340
 - K K Q P T V T L L P A A D M D D F S R Q
 - R S S P L * L F F L R L T W M I S P D N
 - E A A H C D S S S C G * H G * F L Q T T
 29341 - CTTCAAAATTCATGAGTGGAGCTTCTGCTGATTCAACTCAGGCATAAACACTCATGATG - 29400
 - L Q N S M S G A S A D S T Q A * T L M M
 - F K I P * V E L L L I Q L R H K H S * *
 - S K F H E W S F C * F N S G I N T H D D

FIG. 11 Con't

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29401 - ACCACACAAGGCAGATGGGCTATGTAAACGTTTTTCGCAATTCCGTTTACGATACATAGTC - 29460
- T T Q G R W A M * T F S Q F R L R Y I V
- P H K A D G L C K R F R N S V Y D T * S
- H T R Q M G Y V N V F A I P F T I H S L
29461 - TACTCTTGTGCAGAATGAATTCTCGTAACTAAACAGCACAAGTAGGTTTAGTTAACTTTA - 29520
- Y S C A E * I L V T K Q H K * V * L T L
- T L V Q N E F S * L N S T S R F S * L *
- L L C R M N S R N * T A Q V G L V N F N
29521 - ATCTCACATAGCAATCTTTAATCAATGTGTAAACATTAGGGAGGACTTGAAAGAGCCACCA - 29580
- I S H S N L * S M C N I R E D L K E P P
- S H I A I F N Q C V T L G R T * K S H H
- L T * Q S L I N V * H * G G L E R A T T
29581 - CATTTTCATCGAGGCCACGCGGAGTACGATCGAGGGTACAGTGAATAATGCTAGGGAGAG - 29640
- H F H R G H A E Y D R G Y S E * C * G E
- I F I E A T R S T I E G T V N N A R E S
- F S S R P R G V R S R V Q * I M L G R A
29641 - CTGCCTATATGGAAGAGCCCTAATGTGTAAAATTAATTTTAGTAGTGCTATCCCCATGTG - 29700
- L P I W K S P N V * N * F * * C Y P H V
- C L Y G R A L M C K I N F S S A I P M *
- A Y M E E P * C V K L I L V V L S P C D
29701 - ATTTTAATAGCTTCTTAGGAGAATGACAAAAAAAAAAAAAAAAA - 29742
- I L I A S * E N D K K K K K X
- F * * L L R R M T K K K K X
- F N S F L G E * Q K K K K X

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FIG. 11 Con't

1 - TTTTTTTTTTTTTTTGTCATTCTCCTAAGAAGCTATTAAATACATGCGGGATAGCACTA - 60
- F F F F F V I L L R S Y * N H M G I A L
- F F F F L S F S * E A I K I T W G * H Y
- F F F F C H S P K K L L K S H G D S T T

61 - CTAAAATTAATTTTACACATTAGGGCTCTTCCATATAGGCAGCTCTCCCTAGCATTATTC - 120
- L K L I L H I R A L P Y R Q L S L A L F
- * N * F Y T L G L F H I G S S P * H Y S
- K I N F T H * G S S I * A A L P S I I H

121 - ACTGTACCCTCGATCGTACTCCGCGTGGCCTCGATGAAAATGTGGTGGCTCTTTCAAGTC - 180
- T V P S I V L R V A S M K M W W L F Q V
- L Y P R S Y S A W P R * K C G G S F K S
- C T L D R T P R G L D E N V V A L S S P

181 - CTCCTAATGTTACACATTGATTAAAGATTGCTATGTGAGATTAAAGTTAACTAACCTA - 240
- L P N V T H * L K I A M * D * S * L N L
- S L M L H I D * R L L C E I K V N * T Y
- P * C Y T L I K D C Y V R L K L T K P T

241 - CTTGTGCTGTTTAGTTACGAGAATTCATTCTGCACAAGAGTAGACTATGTATCGTAAACG - 300
- L V L F S Y E N S F C T R V D Y V S * T
- L C C L V T R I H S A Q E * T M Y R K R
- C A V * L R E F I L H K S R L C I V N G

301 - GAATTGCGAAAACGTTTACATAGCCCATCTGCCTTGTGTGGTCATCATGAGTGTTTATGC - 360
- E L R K R L H S P S A L C G H H E C L C
- N C E N V Y I A H L P C V V I M S V Y A
- I A K T F T * P I C L V W S S * V F M P

361 - CTGAGTTGAATCAGCAGAAGCTCCACTCATGGAATTTTGAAGTTGTCTGGAGAAATCATC - 420
- L S * I S R S S T H G I L K L S G E I I
- * V E S A E A P L M E F * S C L E K S S
- E L N Q Q K L H S W N F E V V W R N H P

421 - CATGTGACCCGCGAGGAAGAAGAGTCACAGTGGGCTGCTTCTTTTGTCTCTGCGCAAAGG - 480
- H V S R R K K S H S G L L L L S L R Q R
- M S A A G R R V T V G C F F C L C G K G
- C Q P Q E E E S Q W A A S F V S A A K A

481 - CTGAGCTTCATCAGTCTTTTTCTTTTGTCTTTTGTCTTTTGTCTCTGCGCAAAGG - 540
- L S F I S L F L F V L F R L C W W E C F
- * A S S V F F F L S F L G S V G G N V L
- E L H Q S F S F C P F * A L L V G M F C

541 - GTATGCGTCAATGTGCTTGTTCAGCAGTATGACGTTGTCTTTGAATTGTGGATCTTTGTC - 600
- V C V N V L V Q Q Y D V V F E L W I F V
- Y A S M C L F S S M T L S L N C G S L S
- M R Q C A C S A V * R C L * I V D L C H

601 - ATCCAATTTAATGGCTCCATGATAAGTCAGCCATGTTCCCCGAAGGTGTGACTTCCATGCC - 660
- I Q F N G S M I S Q P C S R R C D F H A
- S N L M A P * * V S H V P E G V T S M P
- P I * W L H D K S A M F P K V * L P C Q

661 - AATGCGTGACATTCCAAAGAATGCAGAGGCACTTGGAGCAAATTGTGCAATTTGCGGCCA - 720
- N A * H S K E C R G T W S K L C N L R P
- M R D I P K N A E A L G A N C A I C G Q
- C V T F Q R M Q R H L E Q I V Q F A A N

721 - ATGTTTGTAAATCAGTTCTTGTCTGATTAGGTCTTGGTCCCCGAAATTTCTTGGGTTTG - 780
- M F V I S S L S D * V L V P E I S L G L
- C L * S V P C L I R S W S P K F P W V C
- V C N Q F L V * L G L G P R N F L G F V

781 - TTCTGGACCACGTCTCCCAAATGCTTGAGTGACGTTGTACTGTTTGTGGCAGTACGTTT - 840
- F W T T S P K C L S D V V L F C G S T F
- S G P R L P N A * V T L Y C F V A V R F
- L D H V S Q M L E * R C T V L W O Y V F

FIG. 12

841 - TTGGCGAGGCTTTTTAGATGCCTCAGCAGCAGATTCTTAGTGACAGTTTGGCCTTGTTG - 900
 - L A R L F R C L S S R F L S D S L A L L
 - W R G F L D A S A A D F L V T V W P C C
 - G E A F * M P Q Q Q I S * * Q F G L V V
 901 - TTGTTGGCCTTTACCAGAACTTTGCTCTCAAGCTGGTTCAATCTGTCTAGCAGCAATAG - 960
 - L L A F T R N F A L K L V Q S V * Q Q *
 - C W P L P E T L L S S W F N L S S S N S
 - V G L Y Q K L C S Q A G S I C L A A I A
 961 - CGCGAGGGCAGTTTCACCACCTCCGCTAGCCATTGAGCAGGAGAATTTCCCTACTGCT - 1020
 - R E G S F T T S A S H S S R R I S P T A
 - A R A V S P P L A I R A G E F P L L L
 - R G Q F H H L R * P F E Q E N F P Y C C
 1021 - GCCAGGAGTTGAATTTCTTGAATTACCGCGACTACGTGATGAGGAGCGAGAAGAGGCTTG - 1080
 - A R S * I S * I T A T T * * G A R R G L
 - P G V E F L E L P R L R D E E R E E A *
 - Q E L N F L N Y R D Y V M R S E K R L D
 1081 - ACTGCCGCCTCTGCTTCCCTCTGCGTAGAAGCCTTTTGGCAATGTTGTTCCCTTGAGGAAG - 1140
 - T A A S A S L C V E A F W Q C C S L R K
 - L P P L L P S A * K P F G N V V P * G S
 - C R L C F P L R R S L L A M L F L E E V
 1141 - TTGTAGCACGGTGGCAGCATTGTTATTAGGATTGCGGGTGCCAATGTGGTCTTTGGGTGT - 1200
 - L * H G G S I V I R I A G A N V V F G C
 - C S T V A A L L L G L R V P M W S L G V
 - V A R W Q H C Y * D C G C Q C G L W V Y
 1201 - ATTCAAGGCTCCCTCAGTTGCAACCCATACGATGCCTTCTTTGTTAGCGCCGTAGGGAAG - 1260
 - I Q G S L S C N P Y D A F F V S A V G K
 - F K A P S V A T H T M P S L L A P * G S
 - S R L P Q L Q P I R C L L C * R R R E V
 1261 - TGAAGCTTCTGGGCCAGTTCTAGGTAATAGACCTAGCATCTGGGGCTGAGCTCTTTCAT - 1320
 - * S F W A S S * V I E V P S G A E L F H
 - E A S G P V P R * * K Y H L G L S S F I
 - K L L G Q F L G N R S T I W G * A L S F
 1321 - TTTGCCGTCACCACCACGAACCTCGTCGGGTAGCTCTTCGGTAGTAGCCAATTTGGTCATC - 1380
 - F A V T T T N S S G S S S V V A N L V I
 - L P S P P R T R V A L R * * P I W S S
 - C R H H E L V G * L F G S S Q F G H L
 1381 - TGGACCACTATTGGTGTGATTGGAACGCCCTGGCCTCGAGGGAATCTAAGTTCTCCTT - 1440
 - W T T I G V D W N A L A S R E S K F L L
 - G P L L V L I G T P W P R G N L S S S L
 - D H Y W C * L E R P G L E G I * V P P C
 1441 - GCCATGCTGAGTGAGAGCTGTGAACCAAGACGCAGTATTATTGGGTAAACCTTGGGGTCG - 1500
 - A M L S E S C E P R R S I I G * T L G S
 - P C * V R A V N Q D A V L L G K P W G R
 - H A E * E L * T K T Q Y Y W V N L G V G
 1501 - GCGCTGTTTTGGCCTTGCCCCATTGCGTCCCTCCATTCTGGTTATTGTCAGTTGAATCTGT - 1560
 - A L F W P C P I A S S I L V I V S * I C
 - R C F G L A P L R P P F W L L S V E S V
 - A V L A L P H C V L H S G Y C Q L N L W
 1561 - GGGTCCACCAAATGTAATGCGGGGGGCACTACGTTGGTTTGATTGGGGTCCATTATCAGA - 1620
 - G S T K C N A G G T T L V * L G S I I R
 - G P P N V M R G A L R W F D W G P L S D
 - V H Q M * C G G H Y V G L I G V H Y Q T
 1621 - CATTTTAATTTGTTTCGTTTATTTAAACAACAAGTACGTCTCTAAATGCAGCAGTTTGGT - 1680
 - H F N L F V Y L K Q Q V R L * M Q Q F G
 - I L I C S F I * N N K Y V S K C S S L V
 - F * F V R L F K T T S T S L N A A V W *

FIG. 12 Con't

1681 - GACCTTCATGAAGGTACCAACACCTAGCTATAAGCGCACCACCAGCTGGATCTTGACAGT - 1740
 - D L H E G T N T * L * A H H Q L D L D S
 - T F M K V P T P S Y K R T T S W I L T V
 - P S * R Y Q H L A I S A P P A G S * Q L
 1741 - TGATAGTAACATTAGGTGTGCATGTTTGAACCATAGTGTGCCATCTATGAAAAGGTAAAA - 1800
 - * * * H * V C M F E P * C A I Y E K V K
 - D S N I R C A C L N H S V P S M K R * N
 - I V T L G V H V * T I V C H L * K G K T
 1801 - CCTTTCCTAGAGCACAAAGCCAAGCAGTGTCTATAAGTATTACCCCTAGTGTGTACCTTA - 1860
 - P F L E H K A K Q C Y K Y P * C C T L
 - L S * S T K P S S A I S I T P S V V P Y
 - F P R A Q S Q A V L * V L P L V L Y L T
 1861 - CAAGGATCTTCAAGCACATGAGGTTTATTAGATGCACAGCGCTGTACTACAGTGCATATG - 1920
 - Q G S S S T * G L L D A Q R C T T V H M
 - K D L Q A H E V Y * M H S A V L Q C I C
 - R I F K H M R F I R C T A L Y Y S A Y A
 1921 - CAACTGCATAGAGAAATACAAAGTCAAACAATGAGAAGTTTCATGTTTCGTTTAGACTTTG - 1980
 - Q L H R E I Q V K T M R S F M F V * T L
 - N C I E K Y K S K Q * E V S C S F R L W
 - T A * R N T S Q N N E K F H V R L D F G
 1981 - GTACAAGGTTCTTCTAGATCCTGGATTTCGAGTGAAAACCAAATATAATAAGCATTATT - 2040
 - V Q G S S R S W I S S E N Q N I I S I I
 - Y K V L L D P G F R V K T K I * * A L L
 - T R F F * I L D F E * K P K Y N K H Y *
 2041 - AAAACAAGGAATAGCAGAAAGGCTAAAAAGCACAAATAGAAGTCAATTAAAGTGAGCTCA - 2100
 - K T R N S R K A K K H K * K S I K V S S
 - K Q G I A E R L K S T N R S Q L K * A H
 - N K E * Q K G * K A Q I E V N * S E L I
 2101 - TTCATTCTGTCTTTCTCTTAATGGTGAAGCAAAGTATTAAAAATACTAGAGCAGCAACAA - 2160
 - F I L S F S * W * S K V L K I L E Q Q
 - S F C L S L N G E A K Y * K Y * S S N N
 - H S V F L L M V K Q S I K N T R A A T M
 2161 - TGAGAAAAAGTGGCGAGTAGAGCTCTTGTTGAACCTCCTCTGTCTGATGAAAAGTTTTG - 2220
 - * E K V A S R A L V E P P L V * * K V L
 - E K K W R V E L L L N L L L S D E K F W
 - R K S G E * S S C * T S S C L M K S F G
 2221 - GTGAAACTGATCTTGCACGCAGCTGATAGGTATGTTCGAGTACCGTCAGCACAAAGCAAAG - 2280
 - V K L I L H A A D R Y V E Y R Q H K Q K
 - * N * S C T Q L I G M S S T V S T S K S
 - E T D L A R S * * V C R V P S A Q A K A
 2281 - CAAAGTGTGTGCTAGTGCAAGTTAGTGCAAATTTATTGTGAGCAAGAGGGTGAAATGGTG - 2340
 - Q S V C * C K L V Q I Y C Q Q E G E M V
 - K V C A S A S * C K F I V S K R V K W *
 - K C V L V Q V S A N L L S A R G * N G E
 2341 - AATTGCCCTCGTATGTTCTGTGATGGGCAAGGTTCTTTTAGTAGTACAGTCGTACCTCTAA - 2400
 - N C P R M F L M G K V L L V V Q S Y L *
 - I A L V C S * W A R F F * * Y S R T S N
 - L P S Y V P D G Q G S F S S T V V P L T
 2401 - CAACTCCTGATAGTGATATAGCTCGCAAGATGTAAATACAATCAATGTCAGGAAGAGAA - 2460
 - H T P D S D I A R K M * I Q S M S G R E
 - T L L I V I * L A R C K Y N Q C Q E E N
 - H S * * * Y S S Q D V N T I N V R K R I
 2461 - TAATTTTCATGTTTCGTTTATGGATAATCTAACTCCATAGGTTCTTCATCATCTAACTCC - 2520
 - * F S C S F Y G * S N S I G S S S S N S
 - N F H V R F M D N L T P * V L H H L T P
 - I F M F V L W I I * L H R F F I I * L R

FIG. 12 Con't

2521 - GAATAATTCTTCTTAGTTAGAGGCTTAAATAATTGTCTCACTATTGAACTTATTATAACG - 2580
 - E * F F L V R G L N N C L T I E L I I T
 - N N S S * L E A * I I V S L L N L L * R
 - I I L L S * R L K * L S H Y * T Y Y N V
 2581 - TCAAGATTCCAAATAGCAATCCTGAAAGTCCTCATAATGATAATCAATATCTCTGCTATT - 2640
 - S R F Q I A I L K V L I M I I N I S A I
 - Q D S K * Q S * K S S * * * S I S L L L
 - K I P N S N P E S P H N D N Q Y L C Y C
 2641 - GTAACCTGGAAGTCAACAAGATGAAACATCTGTTGTCACTTACTGTACTAGCAAAGCAAT - 2700
 - V T W K S T R * N I C C H L L Y * Q S N
 - * P G S Q Q D E T S V V T Y C T S K A I
 - N L E V N K M K H L L S L T V L A K Q Y
 2701 - ATTGTCTGTTGCTACCGGCGTGGTCTGTATTTAATTTATAGTTTCCAATACGGTAGCGGTT - 2760
 - I V V A T G V V C I * F I V S N T V A V
 - L S L L P A W S V F N L * F P I R * R L
 - C R C Y R R G L Y L I Y S F Q Y G S G C
 2761 - GTATGCAGCAAAACCTGAATCAGTGCCTACACGCTGCGACGCTCCTAATTTGTAATAAGA - 2820
 - V C S K T * I S A Y T L R R S * F V I R
 - Y A A K P E S V P T R C D A P N L * * E
 - M Q Q N L N Q C L H A A T L L I C N K K
 2821 - AAGCGTTTCGTGATGTAGCCACAGTGATCTCTTTTGGCAGGTCCTTAATGTCACAGCGCCC - 2880
 - K R S * C S H S D L F W Q V L N V T A P
 - S V R D V A T V I S F G R S L M S Q R P
 - A F V M * P Q * S L L A G P * C H S A L
 2881 - TAGGGAGTGTCCGGCCATTCGCAAGTGACCACGAATGATCACAGCACCAATGACAAGTTC - 2940
 - * G V S G H S Q V T T N D H S T N D K F
 - R E C P A I R K * P R M I T A P M T S S
 - G S V R P F A S D H E * S Q H Q * Q V H
 2941 - ACTTTCCATGAGCGGTCTGGTCACAATTGTCCCCGGAGAGGCACATTGAGAAGAATGTT - 3000
 - T F H E R S G H N C P P E R H I E K N V
 - L S M S G L V T I V P R R G T L R R M F
 - F P * A V W S Q L S P G E A H * E E C L
 3001 - TGTCTTCTGGGTTGAATGACCACATTGAGCGGGTACGAGCAAACAGCCTGAAGGAAGCAAC - 3060
 - C F W V E * P H * A G T S K Q P E G S N
 - V S G L N D H I E R V R A N S L K E A T
 - F L G * M T T L S G Y E Q T A * R K Q R
 3061 - GAAGTAGCTAAGCCACATCAAGCCTACAATACAAGCCATTGCAATCGCAATCCCGCCAGT - 3120
 - E V A K P H Q A Y N T S H C N R N P A S
 - K * L S H I K P T I Q A I A I A I P P V
 - S S * A T S S L Q Y K P L Q S Q S R Q S
 3121 - CACCCAATTAATTCTGTAGACAACAGCAAGCACAAAACAAGCAAGTGTTACTGGCCACAA - 3180
 - H P I N S V D N S K H K T S K C Y W P Q
 - T Q L I L * T T A S T K Q A S V T G H K
 - P N * F C R Q Q Q A Q N K Q V L L A T R
 3181 - GAGCCAGAGGAAAACAAGCTTTATTATGTACAAAAACCTGTTCCGATTAGAATAGGCAAA - 3240
 - E P E E N K L Y Y V Q K P V P I R I G K
 - S Q R K T S F I M Y K N L F R L E * A N
 - A R G K Q A L L C T K T C S D * N R Q I
 3241 - TTGTAGTAACATAATCCAGGCTAGGAATAGGAAACCTATTACTAGGTTCCATTGTTCCAG - 3300
 - L * * H N P G * E * E T Y Y * V P L F Q
 - C S N I I Q A R N R K P I T R F H C S R
 - V V T * S R L G I G N L L L G S I V P G
 3301 - GAGTTGTTTAAGCTCCTCAACGGTAATAGTACCGTTGTCTGCCATGATAAGCAATGTTAA - 3360
 - E L F K L L N G N S T V V C H D K Q C *
 - S C L S S S T V I V P L S A M I S N V K
 - V V * A P Q R * * Y R C L P * * A M L K

FIG. 12 Con't

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3361 - AGTTCCAAACAGAATAATAATAATAGTTAGTTCGTTTAGACCAGAAGATCAGGAACCTCCT - 3420
    - S S K Q N N N N S * F V * T R R S G T P
    - V P N R I I I I V S S F R P E D Q E L L
    - F Q T E * * * * L V R L D Q K I R N S F
3421 - TCAGAAGAGTTCAGATTTTTTAACACGCGAGTAGACGTAAACCGTTGGTTTTACTAACTC - 3480
    - S E E F R F L T R E * T * T V G F T K L
    - Q K S S D F * H A S R R K P L V L L N S
    - R R V Q I F N T R V D V N R W F Y * T H
3481 - ACGTTAACAATATTGCAGCAGTACGCACACAATCGAAGCGCAGTAAGGATGGCTAGTGTG - 3540
    - T L T I L Q Q Y A H N R S A V R M A S V
    - R * Q Y C S S T H T I E A Q * G W L V *
    - V N N I A A V R T Q S K R S K D G * C D
3541 - ACTAGCAAGAATACCACGAAAGCAAGAAAAAGAAGTACGCTATTAACCTATTAACGTACCT - 3600
    - T S K N T T K A R K R S T L L T I N V P
    - L A R I P R K Q E K E V R Y * L L T Y L
    - * Q E Y H E S K K K K Y A I N Y * R T C
3601 - GTTTCCTCCGAAACGAATGAGTACATAAGTTCGTACTCACTTTCTTGTGCTTACAAAGGC - 3660
    - V S S E T N E Y I S S Y S L S C A Y K G
    - F L P K R M S T * V R T H F L V L T K A
    - F L R N E * V H K F V L T F L C L Q R H
3661 - ACGCTAGTAGTCGTCGTCGGCTCATCATAAATTGGATCCATTGCTGGATTAGCAACTCCT - 3720
    - T L V V V V G S S * I G S I A G L A T P
    - R * * S S S A H H K L D P L L D * Q L L
    - A S S R R R L I I N W I H C W I S N S *
3721 - GAAGAGCCGTCGATTGTGTGTATTGTCACATTCCGTGGGTCTTTAACAAGCTTGTTAAAG - 3780
    - E E P S I V C I C T F G G S L T S L L K
    - K S R R L C V F A H S V G L * Q A C * R
    - R A V D C V Y L H I R W V F N K L V K D
3781 - ATGAAGAATGTAGCATTTTCAATACCAGTGTCTGTAGTAATTTGTGTAGACTCAAGCTGG - 3840
    - M K N V A F S I P V S V V I C V D S S W
    - * R M * H F Q Y Q C L * * F V * T Q A G
    - E E C S I F N T S V C S N L C R L K L V
3841 - TAGTAACTTCGGTGAAATAGCCATGTACAACGACATAGTCTTTAACACCTGAGTGCCTA - 3900
    - * * T S V K * P C T T T * S L T P E C L
    - S K L R * N S H V Q R H S L * H L S A Y
    - V N F G E I A M Y N D I V F N T * V P I
3901 - TCCTCAGAATAACCACCAATTTGGTAGTCTTCTTTGAGTTTGGTGTGAAATGCCGTCA - 3960
    - S S E * P P I W * S S L S F G V E M P S
    - P Q N N H Q F G S L L * V L V L K C R H
    - L R I T T N L V V F F E F W C * N A V T
3961 - CCTTCAGTAACGACAATTGTATCTGTGACACTGTTATATGGTATACAGTAGTCATAGTTA - 4020
    - P S V T T I V S V T L L Y G I Q * S * L
    - L Q * R Q L Y L * H C Y M V Y S S H S Y
    - F S N D N C I C D T V I W Y T V V I V M
4021 - TGTGTGTGCCAGCAAACAAAGTAGTTGGCATCATAAAGTAATGGGTTCTTGGATTTGCAC - 4080
    - C V C Q Q T K * L A S * S N G F L D L H
    - V C A S K Q S S W H H K V M G S W I C T
    - C V P A N K V V G I I K * W V L G F A L
4081 - TTCCAACAAAGCCAACATCTCATAATAATTCTACATGCGTTGATGCATTGTAGAAAATAT - 4140
    - F Q Q S Q H L I I I L H A L M H C R K Y
    - S N K A N I S * * F Y M R * C I V E N I
    - P T K P T S H N N S T C V D A L * K I Y
4141 - ATCAAGGCATAGAGGTACAAAAATTGCGCCTCCTTACCTGCAGCGACAAGCAAAAGATGT - 4200
    - I K A * R Y K N C A S L P A A T S K R C
    - S R H R G T K I A P P Y L Q R Q A K D V
    - Q G I E V Q K L R L L T C S D K Q K M *

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FIG. 12 Con't

4201 - GAATAGATGGTAACAAATAGCAGCAGTAAATTGCAAATGAACTGGAAGCCCTTATAAAGG - 4260
 - E * M V T N S S S K L Q M N W K P L * R
 - N R W * Q I A A V N C K * T G S P Y K G
 - I D G N K * Q Q * I A N E L E A L I K G
 4261 - GCTAGCTGCCATCTTTTATTGAGCGCAATTATTTTGGTAGCGCTCTGAAAAACAGCAAGA - 4320
 - A S C H L L L S A I I L V A L * K T A R
 - L A A I F Y * A Q L F W * R S E K Q Q E
 - * L P S F I E R N Y F G S A L K N S K K
 4321 - AATGCAACGCCAATAACAAGCCATCCGAAAGGGAGTGAGGCTTGTAGCGGTATCGTTGCT - 4380
 - N A T P I T S H P K G S E A C S G I V A
 - M Q R Q * Q A I R K G V R L V A V S L L
 - C N A N N K P S E R E * G L * R Y R C C
 4381 - GTAGCATGAACAGTACTTGCAGGAGAAGCATTGTCAATTTTTTACTGGCTGTGCAGTAATT - 4440
 - V A * T V L A G E A L S I F T G C A V I
 - * H E Q Y L Q E K H C Q F L L A V Q * L
 - S M N S T C R R S I V N F Y W L C S N *
 4441 - GATCCAAGAGTAAAAAATCTCATAAACAATCCATAAGTTTCGTTTATGTGTAATGTAATT - 4500
 - D P R V K N L I N K S I S S F M C N V I
 - I Q E * K I S * T N P * V R L C V M * F
 - S K S K K S H K Q I H K F V Y V * C N L
 4501 - TGACACCCTTGAGAACTGGCTCAGAGTCATCCTCATCAAAGTTCGAGCAAGAACCACAAG - 4560
 - * H P * E L A Q S H P H Q T C S K N H K
 - D T L E N W L R V I L I K L A A R T T R
 - T P L R T G S E S S S S N L Q Q E P Q E
 4561 - AGCATGCACCCTTGAGGCAACTGCAACAACTAGTCATGCAACAAAGCAAGATTGTAACCA - 4620
 - S M H P * G N C N N * S C N K A R L * P
 - A C T L E A T A T T S H A T K Q D C N H
 - H A P L R Q L Q Q L V M Q Q S K I V T M
 4621 - TGACGATGGCAATTAGTCCAGCAATGAAGCCGAGCCAAACATACCAAGGCCATTTAATAT - 4680
 - * R W Q L V Q Q * S R A K H T K A I * Y
 - D D G N * S S N E A E P N I P R P F N I
 - T M A I S P A M K P S Q T Y Q G H L I Y
 4681 - ATTGCTCATATTTTCCCAATTCTTGAAGGTCAATGAGTGATTCAATTTAAATTTTTCAGCA - 4740
 - I A H I F P I L E G Q * V I H L N F * R
 - L L I F S Q F L K V N E * F I * I F S D
 - C S Y F P N S * R S M S D S F K F L A T
 4741 - CCTCATTGAGCGGTCAATTTCTTTTGAATGTTGACGACAGAAGCGTTAATGCCTGAAA - 4800
 - P H * G G Q F L F E C * R Q K R * C L K
 - L I E A V N F F L N V D D R S V N A * N
 - S L R R S I S F * M L T T E A L M P E M
 4801 - TGTCGCCAAGATCAACATCTGGTGATGTATGATTTTTGAAGTACTTGTCCAGCTCTTCTT - 4860
 - C R Q D Q H L V M Y D F * S T C P A L L
 - V A K I N I W * C M I F E V L V Q L F F
 - S P R S T S G D V * F L K Y L S S S S L
 4861 - TGAATGAGTCAAGCTCAGGTTGCAGAGGATCATAAACTGTGTTGTTAATGATGCCAATAA - 4920
 - * M S Q A Q V A E D H K L C C * * C Q *
 - E * V K L R L Q R I I N C V V N D A N N
 - N E S S S G C R G S * T V L L M M P I T
 4921 - CGACATCACAATTTCTTGAGACAAATGTATTGTCTGTAGTAATTATTTGTGGAGAAAAGA - 4980
 - R H H N F L R Q M Y C L * * L F V E K R
 - D I T I S * D K C I V C S N Y L W R K E
 - T S Q F P E T N V L S V V I I C G E K K
 4981 - AGTTCCTCTGTGTAATAAACCAAGAAGTGCCATTAAACACAAAACACCTTCACGAGGGA - 5040
 - S S S V * * T K K C H * T Q K H L H E G
 - V P L C N K P R S A I K H K N T F T R E
 - F L C V I N Q E V P L N T K T P S R G K

FIG. 12 Con't

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5041 - AGTATGCTTTGCCTTCATGACAAATTGCTGGCGCTGTGGTGAAGTTCCTCTCCTGGGATG - 5100
    - S M L C L H D K L L A L W * S S S P G M
    - V C F A F M T N C W R C G E V P L L G W
    - Y A L P S * Q I A G A V V K F L S W D G
5101 - GCACATACGTGACATGTAGGAAGACAACACCATGCGGGGCTGCTTGTGGGAAGGACATAA - 5160
    - A H T * H V G R Q H H A G L L V G R T *
    - H I R D M * E D N T M R G C L W E G H K
    - T Y V T C R K T T P C G A A C G K D I R
5161 - GGTGGTAGCCCTTTCCACAAAAGTCAACTCTTTTGTATTGTCCAAGAACACACTCAGACA - 5220
    - G G S P F H K S Q L F L I V Q E H T Q T
    - V V A L S T K V N S F * L S K N T L R H
    - W * P F P Q K S T L F D C P R T H S D I
5221 - TTTTAGTAGCAGCAAGATTAGCAGAAGCCCTGATTTCAGCAGCCCTGATTAGTTGTTGTG - 5280
    - F * * Q Q D * Q K P * F Q Q P * L V V V
    - F S S S K I S R S P D F S S P D * L L C
    - L V A A R L A E A L I S A A L I S C C V
5281 - TTACATAGGTTTGAAGGCTTTGAAGTCTGCCTGTAATTAACCTGTCAATTTGTACCTCCG - 5340
    - L H R F E G F E V C L * L T C Q F V P P
    - Y I G L K A L K S A C N * P V N L Y L R
    - T * V * R L * S L P V I N L S I C T S A
5341 - CCTCGACTTTATCAAGTCGCGAAAGGATATCATTTAGCACACTTGAAATTGCACCAAAAT - 5400
    - P R L Y Q V A K G Y H L A H L K L H Q N
    - L D F I K S R K D I I * H T * N C T K I
    - S T L S S R E R I S F S T L E I A P K L
5401 - TAGAGCTAAGTTGTTTAAACAAGTGTTTAAATGCTTGAGCATTCTGGTTAACAACGTCTT - 5460
    - * S * V V * Q V C L M L E H S G * Q R L
    - R A K L F N K C V * C L S I L V N N V L
    - E L S C L T S V F N A * A F W L T T S C
5461 - GCAGCTTGCCCAATGCAGTTGATGTTGTGTAAGTGATTCTTGAATTTGACTAATCGCCT - 5520
    - A A C P M Q L M L L * V I L E F D * S P
    - Q L A Q C S * C C C K * F L N L T N R L
    - S L P N A V D V V V S D S * I * L I A L
5521 - TGTAAATTGGTTGGCGATTTGTTTTTGGTTCTCATAGAGAACATTTTGGGTAACCTCAA - 5580
    - C * I G W R F V F G S H R E H F G * L Q
    - V K L V G D L F L V L I E N I L G N S N
    - L N W L A I C F W F S * R T F W V T P M
5581 - TGCCATTGAACCTATATGCCATTTGCATGCAAAAGGTATTTGAAGAGCAGCGCCAGCAC - 5640
    - C H * T Y M P F A * Q K V F E E Q R Q H
    - A I E P I C H L H S K R Y L K S S A S T
    - P L N L Y A I C I A K G I * R A A P A P
5641 - CAAATGTCCATCCAGCAGTGGCAGTACCACTAAGTAGAGCAGCAGTGTAGGCAGCAATCA - 5700
    - Q M S I Q Q W Q Y H * L E Q Q C R Q Q S
    - K C P S S S G S T T N * S S S V G S N H
    - N V H P A V A V P L T R A A V * A A I I
5701 - TATCATCAGTGAGCAGAGGTGGCAACACTGTAAGTCCATTGAACTTCTGCGCACAAATGA - 5760
    - Y H Q * A E V A T L * V H * T S A H K *
    - I I S E Q R W Q H C K S I E L L R T N E
    - S S V S R G G N T V S P L N F C A Q M R
5761 - GATCTCTAGCATTAATATCACCTAGGCATTGCGCATATTGCTTCATGAAGCCAGCATCAG - 5820
    - D L * H * Y H L G I R H I A S * S Q H Q
    - I S S I N I T * A F A I L L H E A S I S
    - S L A L I S P R H S P Y C F M K P A S A
5821 - CGAGTGTACCTTATTAAAGAGCAAGTCCTCAATAAAAGACCTCTTAGTTGGCTTTAGAG - 5880
    - R V S P Y * R A S P Q * K T S * L A L E
    - E C H L I K E Q V L N K R P L S W L * R
    - S V T L L K S S I K D L L V G F R G

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FIG. 12 Con't

5881 - GGTCAGGTAATATTTGTGAAAAATTAAACCACCAAAATATTTCAAAGTTGGGGTTTTGT - 5940
 - G Q V I F V K N * N H Q N I S K L G F C
 - V R * Y L * K I K T T K I F Q S W G F V
 - S G N I C E K L K P P K Y F K V G V L Y
 5941 - ACATTTGTTTGAAGTGTGAGCGAACACTTCACGTGTGTTGCGATCCTGTTTCAGCAGCAATAC - 6000
 - T F V * L E R T L H V C C D P V Q Q Q Y
 - H L F D L S E H F T C V A I L F S S N T
 - I C L T * A N T S R V L R S C S A A I P
 6001 - CTGAGAGTGCACGATTTAGTTGTGTGCAAAAGCTACCATATTGGAGAAGCAAATTAGCAC - 6060
 - L R V H D L V V C K S Y H I G E A N * H
 - * E C T I * L C A K A T I L E K Q I S T
 - E S A R F S C V Q K L P Y W R S K L A H
 6061 - ATTCAGTAGAATCTCCGCAGATGTACATATTACAATCTACGGAGGTTTTAGCCATAGAAA - 6120
 - I Q * N L R R C T Y Y N L R R F * P * K
 - F S R I S A D V H I T I Y G G F S H R N
 - S V E S P Q M Y I L Q S T E V L A I E T
 6121 - CAGGCATTACTTCTGTAGTAATGCTAATTGAAAAGTTAGTAGGTATAGCAATGGTGTAT - 6180
 - Q A L L L * * C * L K S * * V * Q W C Y
 - R H Y F C S N A N * K V S R Y S N G V I
 - G I T S V V M L I E K L V G I A M V L L
 6181 - TAGAGTAAGCAATTGAACTATCAGCACCTAAAGACATAGTATAAGCCACAATAGATTTTT - 6240
 - * S K Q L N Y Q H L K T * Y K P Q * I F
 - R V S N * T I S T * R H S I S H N R F L
 - E * A I E L S A P K D I V * A T I D F W
 6241 - GGCTAGTACTACGTAATAAAGAAACTGTATGGTAACTAGCACAAATGCCAGCTCCAATAG - 6300
 - G * Y Y V I K K L Y G N * H K C Q L Q *
 - A S T T * * R N C M V T S T N A S S N R
 - L V L R N K E T V W * L A Q M P A P I G
 6301 - GAATGTCGCACTCATAAGAAGTGTGACATGCTCAGCTCCTATAAGACAGCCTGCTTGAG - 6360
 - E C R T H K K C R H A Q L L * D S L L E
 - N V A L I R S V D M L S S Y K T A C L S
 - M S H S * E V S T C S A P I R Q P A * V
 6361 - TCTGGAATACATTGTTTCCAGTAGAATATATGCGCCAAGCTGGTGTGAGTTGATCTGCAT - 6420
 - S G I H C F Q * N I C A K L V * V D L H
 - L E Y I V S S R I Y A P S W C E L I C M
 - W N T L F P V E Y M R Q A G V S * S A *
 6421 - GAATTGCTGTAGAAACATCAGTGCAGTTAACATCTTGATATAGAACAGCAACTTCAGATG - 6480
 - E L L * K H Q C S * H L D I E Q Q L Q M
 - N C C R N I S A V N I L I * N S N F R *
 - I A V E T S V Q L T S * Y R T A T S D E
 6481 - AAGCATTTGTTCCAGGTGTAATTACACTTACACCCCCAAAAGAGCAAGGTGAAATGTCTA - 6540
 - K H L F Q V * L H L H P Q K S K V K C L
 - S I C S R C N Y T Y T P K R A R * N V *
 - A F V P G V I T L T P P K E Q G E M S N
 6541 - ATATTTGAGATGTTTTAGGATCTCGAACGGAATCAGTGAAATCAGAAACATCACGGCCAA - 6600
 - I F Q M F * D L E R N Q * N Q K H H G Q
 - Y F R C F R I S N G I S E I R N I T A K
 - I S D V L G S R T E S V K S E T S R P N
 6601 - ATTGTTGAAATGGTTGAAATCTCTTTGAAGAAGGAGTTAACACACCAGTACCAGTGAGTC - 6660
 - I V E M V E I S L K K E L T H Q Y Q * V
 - L L K W L K S L * R R S * H T S T S E S
 - C * N G * N L F E E G V N T P V P V S P
 6661 - CATTAATAAATTGACACACTGGTTCTTAATAAGGTCAGTGGATAATTTTGGTCCAC - 6720
 - H * N * N * H T G S * * G Q W I I L V H
 - I K I K I D T L V L N K V S G * F W S T
 - L K L K L T H W F L I R S V D N F G P Q

FIG. 12 Con't

6721 - AAACCGTGGCCGGTGCATTTAAAAGTTCAAAAGAAAGTACTACAACCTCTGTAAGGTTGGT - 6780
 - K P W P V H L K V Q K K V L Q L C K V G
 - N R G R C I * K F K R K Y Y N S V R L V
 - T V A G A F K S S K E S T T T L * G W *
 6781 - AGCCAATGCCAGTAGTGGTGTAAAAACCATAATCATTTAATGGCCAATAACAATTAAGAG - 6840
 - S Q C Q * W C K N H N H L M A N N N * E
 - A N A S S G V K T I I I * W P I T I K S
 - P M P V V V * K P * S F N G Q * Q L R A
 6841 - CAGGTGGGGTGCAAGGTTTGCCATCAGGGGAGAAAGGCACATTAGATATGTCTCTCTCAA - 6900
 - Q V G C K V C H Q G R K A H * I C L S Q
 - R W G A R F A I R G E R H I R Y V S L K
 - G G V Q G L P S G E K G T L D M S L S K
 6901 - AGGGCCTAAGCTTGCCATGTCTAAGATACCTATATTTATAATTATAATTACCAGTTGAAG - 6960
 - R A * A C H V * D T Y I Y N Y N Y Q L K
 - G P K L A M S K I P I F I I I I T S * S
 - G L S L P C L R Y L Y L * L * L P V E V
 6961 - TAGCATCAATGTTCTAGTATTTCCAAGCAAGGACACAACCCATGAAATCATCTGGCAATT - 7020
 - * H Q C S * Y S K Q G H N P * N H L A I
 - S I N V P S I P S K D T T H E I I W Q F
 - A S M F L V F Q A R T Q P M K S S G N L
 7021 - TATAATTATAATCAGCAATAACACCAGTTTGTCTGGCGCTATTTGTCTTACATCATCTC - 7080
 - Y N Y N Q Q * H Q F V L A L F V L H H L
 - I I I I S N N T S L S W R Y L S Y I I S
 - * L * S A I T P V C P G A I C L T S S P
 7081 - CCTTGACTACAAAAGAATCTGCATAGACATTGGAGAAGCAAAGATCATTCAACTTAGTGG - 7140
 - P * L Q K N L H R H W R S K D H S T * W
 - L D Y K R I C I D I G E A K I I Q L S G
 - L T T K E S A * T L E K Q R S F N L V A
 7141 - CAGAAACGCCATAGCACTTAAAGGTTGAAAAAATGTTGAGTTGTAGAGCAGAGTAAT - 7200
 - Q K R H S T * R L K K M L S C R A Q S N
 - R N A I A L K G * K K C * V V E H R V I
 - E T P * H L K V E K N V E L * S T E * S
 7201 - CAGCAACACAATTAGAAATTTTTTCTCTCCCATGCATAGACAGAAGGGAATTTAGTAG - 7260
 - Q Q H N * K F F F S P M H R Q K G I * *
 - S N T I R N F F S L P C I D R R E F S S
 - A T Q L E I F F L S H A * T E G N L V A
 7261 - CATTA AAAACCTCTCCAAAAGGACACAAGTTTGTAAATATTAGGGAATCTCACACATCTC - 7320
 - H * K P L Q K D T S L * Y * G I S Q H L
 - I K N L S K R T Q V C N I R E S H N I S
 - L K T S P K G H K F V I L G N L T T S P
 7321 - CTGAGGGAACAACCTGAAATTAGAGGTCTGGTAAATTCCTTTGTCAATCTCAAAGCTCT - 7380
 - L R E Q P * N * R S G K F L C Q S Q S S
 - * G N N P E I R G L V N S F V N L K A L
 - E G T T L K L E V W * I P L S I S K L L
 7381 - TAACAGAGCATTTGAGTTCAGCAAGTGGATTTTGAGAACAATCAACAGCATCTGTGATTG - 7440
 - * Q S I * V Q Q V D F E N N Q Q H L * L
 - N R A F E F S K W I L R T I N S I C D C
 - T E H L S S A S G F * E Q S T A S V I V
 7441 - TACCATTTTCATCATACTTGAGCATAAATGTAGTTGGCTTTAAATAGCCAACAAAATAGG - 7500
 - Y H F H H T * A * M * L A L N S Q Q N R
 - T I F I I L E H K C S W L * I A N K I G
 - P F S S Y L S I N V V G F K * P T K * A
 7501 - CTGCAGCTGACGTGCCCCAAATGTCTTGAGCAGGTGAAAAGGCTGTAAGAATGGCTCTAA - 7560
 - L Q L T C P K C L E Q V K R L * E W L *
 - C S * R A P N V L S R * K G C K N G S K
 - A A D V P Q M S * A G E K A V R M A L K

FIG. 12 Con't

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7561 - AATTTGTAATGTTAATACCAAGAGGCAACTTAAAAATAGGTTTCAAAGTGTTAAACCAG - 7620
- N L * C * Y Q E A T * K * V S K C * N Q
- I C N V N T K R Q L K N R F Q S V K T R
- F V M L I P R G N L K I G F K V L K P E
7621 - AAGGTAGATCACGAACACTACATCTATAGGTTGATAGCCCTTATAAACATAGAGAAACCCAT - 7680
- K V D H E L H L * V D S P Y K H R E T H
- R * I T N Y I Y R L I A L I N I E K P I
- G R S R T T S I G * * P L * T * R N P S
7681 - CTTTATTTTAAACACAACTCTCGTAAGTGTTTAAAATTACCTGACTTTTCTGAAACAT - 7740
- L Y F * T Q T L V S V * N Y L T F L K H
- F I F K H K L S * V F K I T * L F * N I
- L F L N T N S R K C L K L P D F S E T S
7741 - CAAGCGAAAAGGCATCAGATATGTACTCGAAAGTGCAATTAAATGCATTATCGAATATCA - 7800
- Q A K R H Q I C T R K C N * M H Y R I S
- K R K G I R Y V L E S A I K C I I E Y H
- S E K A S D M Y S K V Q L N A L S N I I
7801 - TAGTATGTGTCTGTGTACCCATGGGTTTAGAAACAGCAAAGAAAGGGTTGTACACAAATT - 7860
- * Y V S V Y P W V * K Q Q R K G C H T I
- S M C L C T H G F R N S K E R V V T Q F
- V C V C V P M G L E T A K K G L S H N S
7861 - CAAAGTTACATGCTCGTATAACAACATTAGTAGAATTGTTAATAATAATCACCGACTGTG - 7920
- Q S Y M L V * Q H * * N C * * * S P T V
- K V T C S Y N N I S R I V N N N H R L *
- K L H A R I T T L V E L L I I I T D C D
7921 - ACTTGTGTTTCATGGTAGAACCAAAAAACCCAACCACGGACAACATTTGATTTCTCTGTGG - 7980
- T C C S W * N Q K P N H G Q H L I S L W
- L V V H G R T K N P T T D N I * F L C G
- L L F M V E P K T Q P R T T F D F S V A
7981 - CAGCAAATAAATAACCATCCTTAAAAGGTATGACAGGGTTGCCAAACGTATGATTAATAG - 8040
- Q Q N K Y H P * K V * Q G C Q T Y D * *
- S K I N T I L K R Y D R V A K R M I N S
- A K * I P S L K G M T G L P N V * L I V
8041 - TATGAAACCCTGTAACATTAGAATAAAATGGAAGAAATAAATCCTGAGTTAAATAAAGAG - 8100
- Y E T L * H * N K M E E I N P E L N K E
- M K P C N I R I K W K K * I L S * I K S
- * N P V T L E * N G R N K S * V K * R V
8101 - TGTCTGATCTAAAAATTTTCATCAGGATAGTAAACCCCTCATAGATGAAGTATGTTGAG - 8160
- C L I * K F H Q D S K P P S * M K Y V E
- V * S K N F I R I V N P P H R * S M L S
- S D L K I S S G * * T P L I D E V C * V
8161 - TGTAATTAGGAGCTTGAACATCATCAAAGTGTTGACCGGTCAAGGTCACTACCCTAG - 8220
- C N * E L E H H Q K W C T G Q G H Y H *
- V I R S L N I I K S G A P V K V T T T S
- * L G A * T S S K V V H R S R S L P L V
8221 - TGAGAGTAAGAAATAATAAGAAAATAAACATGTTTCGTTTAGTTGTTAACAAGAATATCAC - 8280
- * E * E I I R K * T C S F S C * Q E Y H
- E S K K * * E N K H V R L V V N K N I T
- R V R N N K K I N M F V * L L T R I S L
8281 - TTGAAACCACAACCTCTGTTGTTTTCTCTAATGATAAGCCTACCTTTTTCCAGAAGAGAAT - 8340
- L K P Q L C C F L * * * A Y L F P E E N
- * N H N S V V F S N D K P T F F Q K R I
- E T T T L L F S L M I S L P F S R R E *
8341 - AAATCATATCATTGATTTGATTCTCCTTAAGAGACATTACAGCAGTTTCCTCTTAATTTAA - 8400
- K S Y H * F D S P * E T L Q Q F L L I *
- N H I I D L I L L K R H Y S S S S * F K
- I I S L I * F S L R D I T A V P L N L R

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FIG. 12 Con't

8401 - GAGGAAATTTGCTCATGTCAAAGAGTGAATAGGAAGACAACCTGGATAGGATTTGTGTTCC - 8460
 - E E I C S C Q R V N R K T T G * D L C S
 - R K F A H V K E * I G R Q L D R I C V P
 - G N L L M S K S E * E D N W I G F V F L
 8461 - TCCAGAAAATGTAGTTAGCATGCATGGTATAGCCATCAATTTGTTCTTCGGCTTGCCAA - 8520
 - S R K C S * H A W Y S H Q F V P S A C Q
 - P E N V V S M H G I A I N L F L R L A K
 - Q K M * L A C M V * P S I C S F G L P R
 8521 - GATAGTTAGCCCCAATTAAAAATGCTTCCGATGATGATGCATTTACATTTGTAACAAAAG - 8580
 - D S * P Q L K M L P M M M H L H L * Q K
 - I V S P N * K C F R * * C I Y I C N K S
 - * L A P I K N A S D D D A F T F V T K A
 8581 - CTGTCCACCATGAGAAATGGCCCATAGCTTGTAAGGTCAGCATTCCAAGAATGCTCTG - 8640
 - L S T M R N G P * A C K G Q H S K N A L
 - C P P * E M A H K L V K V S I P R M L C
 - V H H E K W P I S L * R S A F Q E C S V
 8641 - TTATCTTTACAGCTATAGAACCACCCAGGGCTAGTTTTTGTCTTTATAAATCCACACAGAT - 8700
 - L S L Q L * N H P G L V F A L * I H T D
 - Y L Y S Y R T T Q G * F L L Y K S T Q I
 - I F T A I E P P R A S F C F I N P H R *
 8701 - AAGTGAAAAACCCTTCTTTAGAGTCATTCTCTTTTGTACATGTTTGGTCTAGGGTCAT - 8760
 - K * K T L L * S H S L L S H V W S * G H
 - S E K P F F R V I L F C H M F G P R V I
 - V K N P S L E S F S F V T C L V L G S Y
 8761 - ACATATCGCTAATAATAAGGTCCCATTTATTAGCCGTATGTACTGTTGCACAGTCTCCAA - 8820
 - T Y R * * * G P I Y * P Y V L L H S L Q
 - H I A N N K V P F I S R M Y C C T V S N
 - I S L I I R S H L L A V C T V A Q S P I
 8821 - TTAAAGTAGAATCTGCGTCGGAGACGAAGTCATTAAGATCTGAATCGACAAGTAGTGTGC - 8880
 - L K * N L R R R R S H * D L N R Q V V C
 - * S R I C V G D E V I K I * I D K * C A
 - K V E S A S E T K S L R S E S T S S V P
 8881 - CAGTTGGCAACCATTGTCTGAGCACAGCTGTACCTGGTGCAACTCCTTTATCAGAGCCAG - 8940
 - Q L A T I V * A Q L Y L V Q L L Y Q S Q
 - S W Q P L S E H S C T W C N S F I R A S
 - V G N H C L S T A V P G A T P L S E P A
 8941 - CACCAAAGTGAATAACTCTCATGTTGTAGGGTACAGCTAAAGTAAGTGATTTAAGTATT - 9000
 - H Q S E * L S C C R V Q L K * V Y L S I
 - T K V N N S H V V G Y S * S K C I * V L
 - P K * I T L M L * G T A K V S V F K Y *
 9001 - GACACAGTTGAGTATACTTTGCGACATTCATCATTATTCCTTTTGGTATAACAGCATT - 9060
 - D T V E Y T L R H S S L F L L V * Q H F
 - T Q L S I L C D I H H Y S F W Y N S I F
 - H S * V Y F A T F I I I P F G I T A F S
 9061 - CACCATAATTCTGAAGGTCACACTTTTCAAGAAGCATTCTTTGCATCTTGTACAAGTTAG - 9120
 - H H N S E G H T F Q E A F F A S C T S *
 - T I I L K V T L F K K H S L H L V Q V R
 - P * F * R S H F S R S I L C I L Y K L G
 9121 - GCATCGCAACACCTGGTTGCCACGCTTGACTTGCTTGTAGTTTTGGGTAGAAGGTTTCAA - 9180
 - A S Q H L V A T L D L L V V L G R R F Q
 - H R N T W L P R L T C L * F W V E G F N
 - I A T P G C H A * L A C S F G * K V S T
 9181 - CATGTCCATCCTTACACCAAAGCATGAATGAAATTTAGCATAGTCAATTGTAACCTTGA - 9240
 - H V H P Y T K A * M K F Q H S Q L * P *
 - M S I L T P K H E * N F S I V N C N L D
 - C P S L H Q S M N E I S A * S I V T L T

FIG. 12 Con't

9241 - CCACTTTTGAAATCACTGACAAATCTTGTGACTTTATTATCTCGACAAAGTCATCAAGTA - 9300
 - P L L K S L T N L V T L L S R Q S H Q V
 - H F * N H * Q I L * L Y Y L D K V I K *
 - T F E I T D K S C D F I I S T K S S S K
 9301 - AAAGATCAATCACAGAACACACACATTTTGTGATGAACCTGTTGCGCATCTGTTATGAAGT - 9360
 - K D Q S Q N T H I L M N L F A H L L * S
 - K I N H R T H T F * * T C L R I C Y E V
 - R S I T E H T H F D E P V C A S V M K *
 9361 - AATTTTTCCTGTGCTGTCCATAGGGATAAAATCCTCTAATTTAAGTGGTGAATCTTGTG - 9420
 - N F S L C C P * G * N P L I * V V N L V
 - I F H C A V H R D K I L * F K W * I L *
 - F F T V L S I G I K S S N L S G E S C E
 9421 - AGCGCTTGGCTAAGCCTATCATTAAATGAAGACCGCCAAGTTGTCCATGACTGAAATCTC - 9480
 - S A W L S L S L N E D R Q V V H D * N L
 - A L G * A Y H * M K T A K L S M T E I S
 - R L A K P I I K * R P P S C P * L K S P
 9481 - CATAACGATGTGTTTGAAGGCATAGCCCTCGAGCTTATATCGCTGTATGAATTCATCCA - 9540
 - H K R C V R R H S P R A Y I A V * I H P
 - I N D V F E G I A L E L I S L Y E F I H
 - * T M C S K A * P S S L Y R C M N S I
 9541 - TAGCGAGCTCGAGAAAGTCAGTTTCCATTTGTGATCTGGGCTTAAATCCTCTAAGTCTC - 9600
 - * R A R E S Q F P F V I W A * N P L S L
 - S E L E K V S F H L * S G L K I L * V S
 - A S S R K S V S I C D L G L K S S K S L
 9601 - TGCTCTGAGTAAAGTAGGTTTCAGGCAACTGTTGAATAATGCCGTCTACTTTCTTAAAGT - 9660
 - C S E * S R F Q A T V E * C R L L S * S
 - A L S K V G F R Q L L N N A V Y F L K V
 - L * V K * V S G N C * I M P S T F L K *
 9661 - AGTTAAACTGTGTTTTTACTGATTCTCCAATTAATGTGACTCCATTGACGCTAGCTTGTG - 9720
 - S * T V F L L I L Q L M * L H * R * L V
 - V K L C F Y * F S N * C D S I D A S L C
 - L N C V F T D S P I N V T P L T L A C A
 9721 - CTGGTCCCTTTGAAGGTGTTAGACCTTTGACTGAACCTTCTGTTATTTAAACACCATTAC - 9780
 - L V P L K V L D L * L N L L L L K H H Y
 - W S L * R C * T F D * T F C Y * N T I T
 - G P F E G V R P L T E P S V I K T P L R
 9781 - GGGCGTTTCTAAAAAGGTCTACCTGTCTTCCACTCTACCATCAAACAAGACAGTAAGTG - 9840
 - G R F * K G L P V L P L Y H Q T R Q * V
 - G V S K K V Y L S F H S T I K Q D S K *
 - A F L K R S T C P S T L P S N K T V S E
 9841 - AAGAACAAGCACTCTCAGTAGGTTTCTTGGCAATGTGAGTCATTGTGCAGACACCTATTG - 9900
 - K N K H S Q * V S W Q C Q S L C R H L L
 - R T S T L S R F L G N V S H C A D T Y C
 - E Q A L S V G F L A M S V I V Q T P I V
 9901 - TAGATACATGTGCTGGGGCTTCTCTTTTGTAGTCCCAGATTACAGTATTAGCAGCGATAT - 9960
 - * I H V L G L L F C S P R L Q Y * Q R Y
 - R Y M C W G F S F V V P D Y S I S D I
 - D T C A G A S L L * S Q I T V L A A I S
 9961 - CAACACCCAAATTATTGAGTATCTTAATCTCTGGCACTGGTTTAAATGTTACGCTTAGCCC - 10020
 - Q H P N Y * V S * S L A L V * C Y A * P
 - N T Q I I E Y L N L W H W F N V T L S P
 - T P K L L S I L I S G T G L M L R L A Q
 10021 - AAAGCTCAAATGCAACATTAACAGGAAGTGTGTCTTATTTTCAAAGATCTCCACATCAA - 10080
 - K A Q M Q H * Q E V L S Y F Q R S P H Q
 - K L K C N I N R K C C L I F K D L H I N
 - S S N A T L T G S V V L F S K I S T S I

FIG. 12 Con't

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10081 - TACCATCTACCTTTGTGTAAACAGCATTATTAATGATGGAAACAGGTGCTTCGCCGGCGT - 10140
- Y H L P L C K Q H Y * * W K Q V L R R R
- T I Y L C V N S I I N D G N R C F A G V
- P S T F V * T A L L M M E T G A S P A C
10141 - GTCCATCAAAGTGTCTTTATTAACAACATTATAAGCCACATTTTCTAAACTCTGTAACC - 10200
- V H Q S V L Y * Q H Y K P H F L N S V T
- S I K V S F I N N I I S H I F * T L * P
- P S K C P L L T T L * A T F S K L C N L
10201 - TGGTAAATGTATTCCACAGGTTATAAGTATCAAATTGTTTGTAATCCATAGGCTAAATC - 10260
- W * M Y S T G Y K Y Q I V C K S I G * I
- G K C I P Q V I S I K L F V N P * A K S
- V N V F H R L * V S N C L * I H R L N P
10261 - CAGCAGAAATCATCATATTATATGCATCCAAGTACTGTCGGTACTCATTGTCATGGTGTGTC - 10320
- Q Q K S S Y Y M H P S T V G T H L H G V
- S R N H H I I C I Q V L S V L I C M V S
- A E I I I L Y A S K Y C R Y S F A W C L
10321 - TGCAAAACAGCACCACCTAAATTGCATCGTGTAATACACGTAGCAGATTTGAGTGGAACAT - 10380
- C K Q H H L N C I V * Y T * Q I * V E H
- A N S T T * I A S C N T R S R F E W N I
- Q T A P P K L H R V I H V A D L S G T *
10381 - AATCAATATCCGACACTACTTGTTTGCCATGAGACTCACAAGGACTATCAGAATAGTAAA - 10440
- N Q Y P T L L V C H E T H K D Y Q N S K
- I N I R H Y L F A M R L T R T I R I V K
- S I S D T T C L P * D S Q G L S E * * K
10441 - AGAAAGGCAATTGCTTTAAATTAGTAAATGCACTTTTATCGAAAGCTGGAGTGTGGAATG - 10500
- R K A I A L N * * M H F Y R K L E C G M
- E R Q L L * I S K C T F I E S W S V E C
- K G N C F K L V N A L L S K A G V W N A
10501 - CATGCTTATTCACATACAAACTACCACCATCAGCCTGGTAAGTTCAAGTTTGACAAGA - 10560
- H A Y S H T N Y H H H S L V S S S L T R
- M L I H I Q T T T I T A W * V Q V * Q D
- C L F T Y K L P P S Q P G K F K F D K T
10561 - CTCTTGTTGTCAAACCTACACACAATTGCATTGGCTGGGTAACGATCAACGTTACAATTCC - 10620
- L L C Q T Y T Q L H W L G N D Q R Y N S
- S C V K P T H N C I G W V T I N V T I P
- L V S N L H T I A L A G * R S T L Q F Q
10621 - AAAACAAACAAACACCATCAGTGAATTTATCGTGATGTGTAGCATAAGAATAGAAGAGTT - 10680
- K T N K H H Q * I Y R D V * H K N R R V
- K Q T N T I S E F I V M C S I R I E E F
- N K Q T P S V N L S * C V A * E * K S S
10681 - CCTCTATTTTGTAAAGCTTTGTCACTACATGGCTGAGCATCGTAGAACTTCCATTCTACTT - 10740
- P L F C K L C H Y M A E H R R T S I L L
- L Y F V S F V T T W L S I V E L P F Y F
- S I L * A L S L H G * A S * N F H S T S
10741 - CAGCCTGAGGCACACACTTGATAGCCTTTGGATTTCGAATGTCATGAAGAACTGGAAACT - 10800
- Q P E A H T * * P L D F Q C H E E L E T
- S L R H T L D S L W I S N V M K N W K L
- A * G T H L I A F G F P M S * R T G N L
10801 - TATCAGCAAGCAATGCAGACTTCACAACCATGTGTTGTACTTTTCTGCAAGCAGAATTAA - 10860
- Y Q Q A M Q T S Q P C V V L F C K Q N *
- I S K Q C R L H N H V L Y F S A S R I N
- S A S N A D F T T M C C T F L Q A E L T
10861 - CCCTCAGTTCATCTCCTATAATAGGGTATTCAACAGACCAATCAACGCGCTTAACAAAGC - 10920
- P S V H L L * * G I Q Q T N Q R A * Q S
- P Q F I S Y N R V F N R P I N A L N K A
- L S S S P I I G Y S T D Q S T R L T K H

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FIG. 12 Con't

10921 - ACTCATGGACTGCTAAACATCTAGTCATGATAGCATCACAACCTAGCCACATGTGCATTTC - 10980
 - T H G L L N I * S * * H H N * P H V H F
 - L M D C * T S S H D S I T T S H M C I S
 - S W T A K H L V M I A S Q L A T C A F P
 10981 - CATGTACCTGGCAATGTTGGTCATGGTTACTCTGAAGGTTACCCGTAAAGCCCCACTGCT - 11040
 - H V P G N V G H G Y S E G Y P * S P T A
 - M Y L A M L V M V T L K V T R K A P L L
 - C T W Q C W S W L L * R L P V K P H C *
 11041 - GAACATCAATCATAAATGGGTTATAGACATAGTCAAAACCCACAGAATGATTCCAGCAGG - 11100
 - E H Q S * M G Y R H S Q N P Q N D S S R
 - N I N H K W V I D I V K T H R M I P A G
 - T S I I N G L * T * S K P T E * F Q Q A
 11101 - CATAAGTATCTGATGAAGTAGAAAAGCAAGTTGCACGTTTGTACACAGACAACACGTTTC - 11160
 - H K Y L M K * K S K L H V C H T D N T F
 - I S I * * S R K A S C T F V T Q T T R S
 - * V S D E V E K Q V A R L S H R Q H V L
 11161 - TTTCAGGTCCAATCTTGACAAAGTACTTCATTGATGTAAGCTCAAAGCCATGCGCCCAA - 11220
 - F Q V Q S * Q S T S L M * A Q S H A P K
 - F R S N L D K V L H * C K L K A M R P K
 - S G P I L T K Y F I D V S S K P C A Q R
 11221 - GGACGAACACGACTCTGTCTGACAATCCTTTTCAGTGTATCACTGAGCATTTGTACTATCT - 11280
 - G R T R L C L T I L S V Y H * A F V L S
 - D E H D S V * Q S F Q C I T E H L Y Y L
 - T N T T L S D N P F S V S L S I C T I L
 11281 - TAATACGCACTACATTCCAGGGCAAGCCTTTATACATGAGTGGTATAAGATGTTTAAACT - 11340
 - * Y A L H S R A S L Y T * V V * D V * T
 - N T H Y I P G Q A F I H E W Y K M F K L
 - I R T T F Q G K P L Y M S G I R C L N W
 11341 - GGTACCTGGTGGAGGTTTTGCATTAACCTCTGGTGAATTCTGTGTTATTTTCAGTGTCAA - 11400
 - G H L V E V L H * L W * I L C Y F Q C Q
 - V T W W R F C I N S G E F C V I F S V N
 - S P G G G F A L T L V N S V L F S V S T
 11401 - CATAACCAGTCGGTACAGCTACTAAGTTAACACCTGTAGAAAATCCTAGCTGGAGAGGTA - 11460
 - H N Q S V Q L L S * H L * K I L A G E V
 - I T S R Y S Y * V N T C R K S * L E R *
 - * P V G T A T K L T P V E N P S W R G R
 11461 - GGTTAGTACCCACAGCATCTCTAGTTGCATGACAGCCCTCTACATCAAAGCCAATCCACG - 11520
 - G * Y P Q H L * L H D S P L H Q S Q S T
 - V S T H S I S S C M T A L Y I K A N P R
 - L V P T A S L V A * Q P S T S K P I H A
 11521 - CACGAACGTGACGAATAGCTTCTTCGCGGGTGATAAACATATTAGGGTAACCATTGACTT - 11580
 - H E R D E * L L R G * * T Y * G N H * L
 - T N V T N S F F A G D K H I R V T I D L
 - R T * R I A S S R V I N I L G * P L T W
 11581 - GGTAATTCAATTTTGAAACCCATCATAGAGATGAGTCTACGGTAGGTCATGTCCTTTGGTA - 11640
 - G N S F * N P S * R * V Y G R S C P L V
 - V I H F E T H H R D E S T V G H V L W Y
 - * F I L K P I I E M S L R * V M S F G M
 11641 - TGCCTGGTATGTCAACACATAATCCTTCAGTCTTGAATTTTATATCAACGCTGAGGTGTG - 11700
 - C L V C Q H I I L Q S * I L Y Q R * G V
 - A W Y V N T * S F S L E F Y I N A E V C
 - P G M S T H N P S V L N F I S T L R C V
 11701 - TAGGTGCCTGTGTAGGATGAAGACCAGTAATGATCTTACTACAGTCCTTAAAAAGTCCAG - 11760
 - * V P V * D E D Q * * S Y Y S P * K V Q
 - R C L C R M K T S N D L T T V L K K S S
 - G A C V G * R P V M I L L Q S L K S P V

FIG. 12 Con't

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11761 - TTACATTTTCTGCTTGTAATGTAGCCACATTGCGACGTGGTATTTCTAGACTTGTAATT - 11820
- L H F L L V M * P H C D V V F L D L * I
- Y I F C L * C S H I A T W Y F * T C K L
- T F S A C N V A T L R R G I S R L V N C
11821 - GCAGTTTGTCTATAAAGATCTCTATCAGACATTATGCACAAAATGCCAATTTTGGCCTTG - 11880
- A V C H K D L Y Q T L C T K C Q F L P L
- Q F V I K I S I R H Y A Q N A N F C P C
- S L S * R S L S D I M H K M P I F A L V
11881 - TGATAGCCACATTGAAGCGTTGACATTACAAGAGTGTGCTGTTTCAGTAGTTTGTGTGA - 11940
- * * P H * S G * H Y K S V L F Q * F V *
- D S H I E A V D I T R V C C F S S L C E
- I A T L K R L T L Q E C A V S V V C V N
11941 - ATATGACATAGTCATATTCAGAACCCTGTGATGAATCAACAGTCTGCGTAGGCAATCCTA - 12000
- I * H S H I Q N P V M N Q Q S A * A I L
- Y D I V I F R T L * * I N S L R R Q S *
- M T * S Y S E P C D E S T V C V G N P K
12001 - AGATTTTGAAGCTACAGCGTTCTGTGAATTATAAGGTGAGATAAAAACAGCTTTTCTCC - 12060
- R F L K L Q R S V N Y K V R * K Q L F S
- D F * S Y S V L * I I R * D K N S F S P
- I F E A T A F C E L * G E I K T A F L Q
12061 - AAGCAGGATTGCGTGAAGAAATTCTCTTACAACGCCTATTTGAGGTCTGTTGATTGCAG - 12120
- K Q D C V * E I L L Q R L F E V C * L Q
- S R I A C K K F S Y N A Y L R S V D C R
- A G L R V R N S L T T P I * G L L I A D
12121 - ATGAAACATCATGTGTAATAACACCTTTGTAGAACATTTGAAGCATTGAGCTGACTTAT - 12180
- M K H H V * * H L C R T F * S I E L T Y
- * N I M C N N T F V E H F E A L S * L I
- E T S C V I T P L * N I L K H * A D L S
12181 - CCTTGTGTGCTTTTAGCTTATTGTCTATAAACTAAAGCACTCACAGTGTCAACAATTCAG - 12240
- P C V L L A Y C H K L K H S Q C Q F Q
- L V C F * L I V I N * S T H S V N N F S
- L C A F S L L S * T K A L T V S T I S A
12241 - CAGGACAACGGCGACAAGTTCCAAGGAACATGTCTGGACCTATTGTTTTATAAGTCTGC - 12300
- Q D N G D K F Q G T C L D L L F S * V C
- R T T A T S S K E H V W T Y C F H K S A
- G Q R R Q V P R N M S G P I V F I S L H
12301 - ACAGTGAATTAATAATTCTGGTTCTAGTGTGCCTTTAGTCAGCAATGTGCGGGGGGCTG - 12360
- T L N * N I L V L V C L * S A M C G G L
- H * I K I F W F * C A F S Q Q C A G G W
- T E L K Y S G S S V P L V S N V R G A G
12361 - GTAATTGAGCAGGATCGCCAATATAGACGTAGTGTGTTTGCACGAAGTCTAGCATTGACAA - 12420
- V I E Q D R Q Y R R S V L H E V * H * Q
- * L S R I A N I D V V F C T K S S I D N
- N * A G S P I * T * C F A R S L A L T T
12421 - CACTCAAGTCATAATTAGTAGCCATAGAGATTTTCATCAAAGACTACAATGTCAGCAGTTG - 12480
- H S S H N * * P * R F H Q R L Q C Q Q L
- T Q V I I S S H R D F I K D Y N V S S C
- L K S * L V A I E I S K T T M S A V V
12481 - TTTCTGGCAATGCATTTACAGTGCAGAAAACATACTGTTCTAGTGTGTAATTCATTTGA - 12540
- F L A M H L Q C R K H T V L V L N S L *
- F W Q C I Y S A E N I L F * C * I H F E
- S G N A F T V Q K T Y C S S V E F T L N
12541 - ATTTATCAAAACACTCTACGCGCGCAGCGCAGGTATGATTCTACTACATTTATCTATGG - 12600
- I Y Q N T L R A H A Q V * F Y Y I Y L W
- F I K T L Y A R T R R Y D S T T F I Y G
- L S K H S T R A R A G M I L L H L S M G

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FIG. 12 Con't

12601 - GCAAATATTTTAAATGCCTTTTTCACATAGGGCATCAACAGCTGCATGAGAGCATGCCGTAT - 12660
 - A N I L M P F H I G H Q Q L H E S M P Y
 - Q I F * C L F T * G I N S C M R A C R I
 - K Y F N A F S H R A S T A A * E H A V Y
 12661 - ACACTATGCGAGCAGATGGGTAATAGAGAGCAAGTCCGATGGCAAATGACTCTTACCAG - 12720
 - T L C E Q M G N R E Q V R W Q N D S Y Q
 - H Y A S R W V I E S K S D G K M T L T S
 - T M R A D G * * R A S P M A K * L L P V
 12721 - TACCAGGTGGTCCTTGGAGTGTAGAGTACTTTTGCATGCCGACCTTTTGATAATTTGCAA - 12780
 - Y Q V V L G V * S T F A C R P F D N L Q
 - T R W S L E C R V L L H A D L L I I C N
 - P G G P W S V E Y F C M P T F * * F A T
 12781 - CATTGCTAGAAAACCTCATCTGAGATGTTGAGTGTGGGTACAAGCCAGTAATTCTCACAT - 12840
 - H C * K T H L R C * V L G T S Q * F S H
 - I A R K L I * D V E C W V Q A S N S H I
 - L L E N S S E M L S V G Y K P V I L T *
 12841 - AGTGCTCTTGTGGCACTAGAGTAGGTGCACTAAGTGGCATTACAGTGTGAGATGTCAACA - 12900
 - S A L V A L E * V H * V A L Q C E M S T
 - V L L W H * S R C T K W H Y S V R C Q H
 - C S C G T R V S G A L S G I T V * D V N T
 12901 - CAAAGTAATCACCAACATTCAACTTGTATGTCGTAGTACCTCTGTACACAACAGCATCAC - 12960
 - Q S N H Q H S T C M S * Y L C T Q Q H H
 - K V I T N I Q L V C R S T S V H N S I T
 - K * S P T F N L Y V V V P L Y T T A S P
 12961 - CATAGTCACCTTTTCAAAGGTGTACTCTCCAATCTGTACTTTACTATTTTGTAGTTACAC - 13020
 - H S H L F Q R C T L Q S V L Y Y F * L H
 - I V T F F K G V L S N L Y F T I F S Y T
 - * S P F S K V Y S P I C T L L F L V T R
 13021 - GGTAACCAGTAAAGACATAGTTTCTGTTCAATGGTGGTCTAGGTTTCCAACCTCCCATG - 13080
 - G N Q * R H S F C S M V V * V F Q P P M
 - V T S K D I V S V Q W W S R F S N L P *
 - * P V K T * F L F N G G L G F P T S H E
 13081 - AAAGATGCAATTCTCTGTGAGAGTACTTCGCGTACAGTGGCAATACCATATGACAGCT - 13140
 - K D A I L C Q R V L R V Q W Q Y H M T A
 - K M Q F S V R E Y F A Y S G N T I * Q L
 - R C N S L S E S T S R T V A I P Y D S L
 13141 - TAAATGTTTCTCAGTGGCTTTGAGCGTTTCTGCTGCGAAAAGCTTGAGTCTCTCAGTAC - 13200
 - * M F P Q W L * A F L L R K A * V S Q Y
 - K C F L S G F E R F C C E K L E S L S T
 - N V S S V A L S V S A A K S L S L S V Q
 13201 - AAGTGTGGCAAGTATGTAATCGCCAGCATTAGTCCAATCACATGTTGCTATCGCATTGA - 13260
 - K C W Q V C N R Q H * S N H M L L S H *
 - S V G K Y V I A S I S P I T C C Y R I E
 - V L A S M * S P A L V Q S H V A I A L K
 13261 - AGTCAGTGACATTGTCACTGCCTACACATGTGTTTTGTATAAACCAAAAACCTGACCAT - 13320
 - S Q * H C H C L H M C F C I N Q K P D H
 - V S D I V T A Y T C V F V * T K N L T I
 - S V T L S L P T H V F L Y K P K T * P L
 13321 - TAGCACATAATGGAAAACCTAATGGGAGGCTTATGTGACTTGCAATAATAGCTCATACCTC - 13380
 - * H I M E N * W E A Y V T C N N S S Y L
 - S T * W K T N G R L M * L A I I A H T S
 - A H N G K L M G G L C D L Q * * L I P P
 13381 - CTAGATACAGTTGTGTGCATCAGTGACATCACAACTGGGGCATTGCAAACATAGGGAT - 13440
 - L D T V V S H Q * H H N L G H C K H R D
 - * I Q L C H I S D I T T W G I A N I G I
 - R Y S C V T S V T S Q P G A L Q T * G L

FIG. 12 Con't

13441 - TAACAGACAACACTAATTTGTGTGATGTTGAAATGACATGGTCATAGCAGCACTTGCAAC - 13500
 - * Q T T L I C V M L K * H G H S S T C N
 - N R Q H * F V * C * N D M V I A A L A T
 - T D N T N L C D V E M T W S * Q H L Q H
 13501 - ATAGGAATGGTCTCCTAATACAGGCACCGCAACGAAGTGAAGTCTGTGAATTGCACAATA - 13560
 - I G M V S * Y R H R N E V K S V N C T I
 - * E W S P N T G T A T K * S L * I A Q Y
 - R N G L L I Q A P Q R S E V C E L H N T
 13561 - CACAAGCACCTACAGCCTGCAAGACTGTATGTGGTGTGTACATAGCCTCATAAACTCAG - 13620
 - H K H L Q P A R L Y V V C T * P H K T Q
 - T S T Y S L Q D C M W C V H S L I K L R
 - Q A P T A C K T V C G V Y I A S * N S G
 13621 - GTTCCAGTACCGTGAGGTGTTATCATTAGTTAGCATTACGGAATACATGTCCAACATGT - 13680
 - V P S T V R C Y H * L A L R N T C P T C
 - F P V P * G V I I S * H Y G I H V Q H V
 - S Q Y R E V L S L V S I T E Y M S N M W
 13681 - GGCCAGTAAGCTCATCATGTAACCTTTCTAATGTATTGTAAATACAAGTGAAAGACATCAG - 13740
 - G Q * A H H V T F * C I V N T S E R H Q
 - A S K L I M * L S N V L * I Q V K D I S
 - P V S S S C N F L M Y C K Y K * K T S A
 13741 - CATACTCCTGATTAGGATGTTTTGTAAGTGGGTAAGCATCAATAGCCAGTGACACGAACC - 13800
 - H T P D * D V L * V G K H Q * P V T R T
 - I L L I R M F C K W V S I N S Q * H E P
 - Y S * L G C F V S G * A S I A S D T N L
 13801 - TTCAATCATAAGTGTACCATCTGTTTTGACAATATCATCGACAAAACAGCCTGCGCCTA - 13860
 - F Q S * V Y H L F * Q Y H R Q N S L R L
 - F N H K C T I C F D N I I D K T A C A *
 - S I I S V P S V L T I S S T K Q P A P N
 13861 - ATATTCTTGATGGATCTGGGTAAGGCAGGTACACGTAATCATCTCCTTGTTTAACTAGCA - 13920
 - I F L M D L G K A G T R N H L L V * L A
 - Y S * W I W V R Q V H V I I S L F N * H
 - I L D G S G * G R Y T * S S P C L T S I
 13921 - TTGTATGCTGTGAGCAAAATTCGTGAGGTCTTTAGTAAGGTCAGTCTCAGTCCAACATT - 13980
 - L Y A V S K I R E V L * * G Q S Q S N I
 - C M L * A K F V R S F S K V S L S P T F
 - V C C E Q N S * G P L V R S V S V Q H F
 13981 - TTGCCTCAGACATGAACACATTATTTTGATAATAAAGAACTGCCTTAAAGTTCTTAATGC - 14040
 - L P Q T * T H Y F D N K E L P * S S * C
 - C L R H E H I I L I I K N C L K V L N A
 - A S D M N T L F * * * R T A L K F L M L
 14041 - TAGCTACTAAACCTTGAGCCGCATAGTTACTGTTATAGCACACAACGGCATCATCAGAAA - 14100
 - * L L N L E P H S Y C Y S T Q R H H Q K
 - S Y * T L S R I V T V I A H N G I I R K
 - A T K P * A A * L L L * H T T A S S E R
 14101 - GAATCATCATGGAGAAATGTTTACGCAGGTAAGCGTAAAACTCATCCACGAATTCATGAT - 14160
 - E S S W R N V Y A G K R K T H P R I H D
 - N H H G E M F T Q V S V K L I H E F M I
 - I I M E K C L R R * A * N S S T N S * S
 14161 - CAACATCCCTATTTCTATAGAGACACTCATAGAGCCTGTGTTGTAGATTGCGGACATACT - 14220
 - Q H P Y F Y R D T H R A C V V D C G H T
 - N I P I S I E T L I E P V L * I A D I L
 - T S L F L * R H S * S L C C R L R T Y L
 14221 - TGTCAGCTATCTTATTACCATCAGTTGAAAGAAGTGCATTTACATTGGCTGTAAACAGCTT - 14280
 - C Q L S Y Y H Q L K E V H L H W L * Q L
 - V S Y L I T I S * K K C I Y I G C N S L
 - S A I L L P S V E R S A F T L A V T A *

FIG. 12 Con't

14281 - GACAAATGTTAAAGACACTATTAGCATAAGCAGTTGTAGCATCACCGGATGATGTTCCAC - 14340
 - D K C * R H Y * H K Q L * H H R M M F H
 - T N V K D T I S I S S C S I T G * C S T
 - Q M L K T L L A * A V V A S P D D V P P
 14341 - CTGGTTTAAACATATAGTGAGCCGCCACACATGACCATCTCACTTAATACTTGCGCACACT - 14400
 - L V * H I V S R H T * P S H L I L A H T
 - W F N I * * A A T H D H L T * Y L R T L
 - G L T Y S E P P H M T I S L N T C A H S
 14401 - CGTTAGCTAACCTGTAGAAACGGTGTGATAAGTTACAGCAAGTGTATGTTTGCGAGCAA - 14460
 - R * L T C R N G V I S Y S K C Y V C E Q
 - V S * P V E T V * * V T A S V M F A S K
 - L A N L * K R C D K L Q Q V L C L R A R
 14461 - GAACAAGAGAGGCCATTATCCTAAGCATGTTAGGCATGGCTCTGTCACATTTTGGATAAT - 14520
 - E Q E R P L S * A C * A W L C H I L D N
 - N K R G H Y P K H V R H G S V T F W I I
 - T R E A I I L S M L G M A L S H F G * S
 14521 - CCCAACCCATAAGGTGTGGAGTTTCTACATCACTGTAAACAGTTTTTAAACATATTATGCC - 14580
 - P N P * G V E F L H H C K Q F L T Y Y A
 - P T H K V W S F Y I T V N S F * H I M P
 - Q P I R C G V S T S L * T V F N I L C Q
 14581 - AGCCACCGTAAACCTTGCTTGTTCCAATTACCACAGTAGCTCCTCTAGTGGCGGCTATTG - 14640
 - S H R K T C L F Q L P Q * L L * W R L L
 - A T V K L A C S N Y H S S S S S G G Y *
 - P P * N L L V P I T T V A P L V A A I D
 14641 - ACTTCAATAATTTCTGATGAAACTGTCTATTTGTCATAGTACTACAGATAGAGACACCAG - 14700
 - T S I I S D E T V Y L S * Y Y R * R H Q
 - L Q * F L M K L S I C H S T T D R D T S
 - F N N F * * N C L F V I V L Q I E T P A
 14701 - CTACGGTGCAGCTCTATTCTTTGCACTAAGTGCATCTTAAGATTCAATTGAGTTATAG - 14760
 - L R C E L Y S L H * W H T * D S F E L *
 - Y G A S S I L C T N G I L K I H L S Y S
 - T V R A L F F A L M A Y L R F I * V I V
 14761 - TAGGGATGACATTACGCTTAGTATACGCGAAAAGTGCATCTTGATCCTCATAACTCATTG - 14820
 - * G * H Y A * Y T R K V H L D P H N S L
 - R D D I T L S I R E K C I L I L I T H *
 - G M T L R L V Y A K S A S * S S * L I E
 14821 - AGTCATAATAAAGTCTAGCCTTACCCCATTTATTAATGGGAAACCAGCTGATTTATCCA - 14880
 - S H N K V * P Y P I Y * M G N Q L I Y P
 - V I I K S S L T P F I K W E T S * F I Q
 - S * * S L A L P H L L N G K P A D L S R
 14881 - GATTGTAAACGATTACTTGGTTGGCATTAAATACAGCCACCATCGTAACAATCAAAGTATT - 14940
 - D C * R L L G W H * Y S H H R N N Q S I
 - I V N D Y L V G I N T A T I V T I K V F
 - L L T I T W L A L I Q P P S * Q S K Y L
 14941 - TATCAACAACTTCAACTACGAATAGGAGTTGTCTGATATCACACATTGTTGGCAGATTAT - 15000
 - Y Q Q L Q L R I G V V * Y H T L L A D Y
 - I N N F N Y E * E L S D I T H C W Q I I
 - S T T S T T N R S C L I S H I V G R L *
 15001 - AACGATAATAGTCATAATCACTGATAGCAGCGTTGCCATCCTGAGCAAAGAAGTGT - 15060
 - N D N S H N H * * Q R C H P E Q R R S V
 - T I I V I I T D S S V A I L S K E E V F
 - R * * S * S L I A A L P S * A K K K C F
 15061 - TTAGTTCAACAGAACTTCCTTCCTTAAAGAAACCTTTAGACACAGCAAAGTCATAAAAGT - 15120
 - L V Q Q N F L P * R N L * T Q Q S H K S
 - * F N R T S F L K E T F R H S K V I K V
 - S S T E L P S L K K P L D T A K S * K S

FIG. 12 Con't

15121 - CTTTATTAAATTACCGGGTTTGACAGTTTGAAAAGCAACATTGTTTGTAGTGCAGCTA - 15180
 - L Y * N Y R V * Q F E K Q H C L L V Q L
 - F I K I T G F D S L K S N I V C * C S Y
 - L L K L P G L T V * K A T L F V S A A T
 15181 - CTGAAAAGCATGTAGTGC GTTTATCTAGCAATAAATTGCCAGAAGCTGCATGCATAGCTG - 15240
 - L K S M * C V Y L A I N C Q K L H A * L
 - * K A C S A F I * Q * I A R S C M H S W
 - E K H V V R L S S N K L P E A A C I A G
 15241 - GATCAGCAGCATACACTAAAAGTTCCTTGAAACTGAGACGCGAGCTATGTAAGTTTACAT - 15300
 - D Q Q H T L K V P * N * D A S Y V S L H
 - I S S I H * K F L E T E T R A M * V Y I
 - S A A Y T K S S L K L R R E L C K F T S
 15301 - CCTGATTATGTACGACTCCTAACTCACGAAAATGGTATCCAGTTGAAACAACAAAAGGAA - 15360
 - P D Y V R L L T H E N G I Q L K Q Q K E
 - L I M Y D S * L T K M V S S * N N K R N
 - * L C T T P N S R K W Y P V E T T K G T
 15361 - CACCATCTACAAATATTTTTCTTACTAGTGGTCCAAAACCTGTAGGTGGAACACAGTAG - 15420
 - H H L Q I F F L L V V Q N L * V E T Q *
 - T I Y K Y F S Y * W S K T C R W K H S R
 - P S T N I F L T S G P K L V G G N T V E
 15421 - AAAATAACACATTAAAGTTTGACAATGAAGGATACACCTATCATCCAAACAGTTAATAC - 15480
 - K I T H * S L H N E G Y T Y H P N S * Y
 - K * H I K V C T M K D T P I I Q T V N T
 - N N T L K F A Q * R I H L S S K Q L I Q
 15481 - AATTGGGATGGTATGTCTGGTCCCAATATTTAAATAACGGTCGAAGAGACAAAGTCTCT - 15540
 - N W D G M S G P N I * N N G R R D K V S
 - I G M V C L V P I F K I T V E E T K S L
 - L G W Y V W S Q Y L K * R S K R Q S L S
 15541 - CTTCCGTAAAATCATATTTTCAGCAAATCCCACCTTAATAAGTGGTGGTGGCAGATCAGCAT - 15600
 - L P * N H I S A N P T * * V V L R D Q H
 - F R K I I F Q Q I P L N K W F C E I S I
 - S V K S Y F S K S H L I S G F A R S A S
 15601 - CCATATGGGACTCAGCAGCCAATGCCCTAGTCAAAGTGAGGATGGGCATCAGCAATGAGT - 15660
 - P Y G T Q Q P M P * S K * G W A S A M S
 - H M G L S S Q C P S Q S E D G H Q Q * V
 - I W D S A A N A L V K V R M G I S N E *
 15661 - AATATGAATCCACAATAGGAACCTCCGCAGCCTGGTGCTACTTGTACGAAATCACCGAAAT - 15720
 - N M N P Q * E L R S L V L L V R N H R N
 - I * I H N R N S A A W C Y L Y E I T E I
 - Y E S T I G T P Q P G A T C T K S P K S
 15721 - CGTACCAGTTCCCATTAAGATCCTGATTATCTAATGTACGTACGCCTACAATGCCTGCAT - 15780
 - R T S S H * D P D Y L M S V R L Q C L H
 - V P V P I K I L I I * C Q Y A Y N A C I
 - Y Q F P L R S * L S N V S T P T M P A S
 15781 - CACGCATAGCATCGCAGAATTGTACAGTCTTTAATAATGATTGGCGTACACGCTCACCTA - 15840
 - H A * H R R I V Q S L I M I G V H A H L
 - T H S I A E L Y S L * * L A Y T L T *
 - R I A S Q N C T V F N N D W R T R S P K
 15841 - AGTTAGCATATACGCGTAAGATGTCAGGATTCTCTACGAAGTCATACCAATCCTTCTTAT - 15900
 - S * H I R V R C Q D S L R S H T N P S Y
 - V S I Y A * D V R I L Y E V I P I L L I
 - L A Y T R K M S G F S T K S Y Q S F L L
 15901 - TGAAATAATCATCATCACAGCAATTGTATGTGACGAGTATTTCTTTTAATGTATCACAAT - 15960
 - * N N H H H S N C M * R V F L L M Y H N
 - E I I I I T A I V C D E Y F F * C I T I
 - K * S S S Q Q L Y V T S I S F N V S Q L

FIG. 12 Con't

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15961 - TACCCTCATCAAAATGACGTAGAGCATAGACTAAATCAGCCATTGTGTATTTAGTTAGAC - 16020
- Y P H Q N D V E H R L N Q P L C I * L D
- T L I K M T * S I D * I S H C V F S * T
- P S S K * R R A * T K S A I V Y L V R R
16021 - GCTGACGTGATATATGTGGTACCATGTCAACCATCTACTCTAAACTTGAAAAAGTCATGGA - 16080
- A D V I Y V V P C H H L L * T * K S H G
- L T * Y M W Y H V T I Y S K L E K V M D
- * R D I C G T M S P S T L N L K K S W T
16081 - CAGCAACCGCTGGACAATCTTTAACCAAGTTATAAATAGTCTCTTCATGTTGGTAGTTAG - 16140
- Q Q P L D N L * P S Y K * S L H V G S *
- S N R W T I F N Q V I N S L F M L V V R
- A T A G Q S L T K L * I V S S C W * L D
16141 - ACATAGTATGCCTCTTAACCTACAAAGTAAGAGTCTAATAAATTGCCTTCCTCATCCTTCT - 16200
- T * Y A S * L Q S K S L I N C L P H P S
- H S M P L N Y K V R V * * I A F L I L L
- I V C L L T T K * E S N K L P S S S F S
16201 - CCTGGAAGCGACAGCAATTAGTTTTTAGGAACCTTTGCAAAACCAGCACTTTTTTCGTTGT - 16260
- P G S D S N * F L G T L Q N Q H F F R C
- L E A T A I S F * E L C K T S T F F V V
- W K R Q Q L V F R N F A K P A L F S L *
16261 - AAATATCAAAAGCCCTGTAGACGACATCAGTACTAGTGCCTGTGCCGCACGGTGTAAGAC - 16320
- K Y Q K P C R R H Q Y * C L C R T V * D
- N I K S P V D D I S T S A C A A R C K T
- I S K A L * T T S V L V P V P H G V R R
16321 - GGGCTGCACTTACACCGCAAACCCGTTTAAAAACGTTGATGCATCCGCAGACTGCATCAA - 16380
- G L H L H R K P V * K R * C I R R L H Q
- G C T Y T A N P F K N V D A S A D C I K
- A A L T P Q T R L K T L M H P Q T A S R
16381 - GGGTTTCGCGGAGTTGGTCACAACCTACAGCCATAACCTTTCCACATTCCGCAGACGGTACA - 16440
- G F A E L V T T T A I T F P H S A D G T
- G S R S W S Q L Q P * P F H I P Q T V Q
- V R G V G H N Y S H N L S T F R R R Y R
16441 - GACTGTGTTTCTAAGTGTAACCACTGGGTCATTAGCACAAGTGGTAGGTATTTGGAC - 16500
- D C V S K C K T H W V I S T S G R Y L D
- T V F L S V K P T G S L A Q V V G I W T
- L C F * V * N P L G H * H K W * V F G R
16501 - GTACTTACCTTTCAAGTCACAGAATCCTTTAGGATTTGGATGGTCAATGTGGCATCTACA - 16560
- V L T F Q V T E S F R I W M V N V A S T
- Y L P F K S Q N P L G F G W S M W H L Q
- T Y L S S H R I L * D L D G Q C G I Y N
16561 - ATACAGACAACATGAAGCACCACCAAGGACTCTTGGTCCATGTTAGCTTCTGGTGTAC - 16620
- I Q T T * S T T K G L L V H V S F W C Y
- Y R Q H E A P P K D S W S M L A S G V T
- T D N M K H H Q R T L G P C * L L V L Q
16621 - AGTAATTGCCTGTCTGTACCAAGTGTGTGTACACAACATCTTCACACAGTTGGTGATTGG - 16680
- S N C L S C T S V C T Q H L H T V G D W
- V I A C P V P V C V H N I F T Q L V I G
- * L P V L Y Q C V Y T T S S H S W * L V
16681 - TTGTCCTCCACTTGCTAGGTAATCCTTATATGCTTTAGCAGGGTCTACTGCAAAAGCACA - 16740
- L S S T C * V I L I C F S R V Y C K S T
- C P P L A R * S L Y A L A G S T A K A Q
- V L H L L G N P Y M L * Q G L L Q K H R
16741 - GAAGGAAAGCACAGTTGAATTGGCAGGTACTTCTGTAGCATTTCAGCCTGAAGACGTAC - 16800
- E G K H S * I G R Y F C S I S S L K T Y
- K E S T V E L A G T S V A F P A * R R T
- R K A Q L N W Q V L L * H F Q P E D V L

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FIG. 12 Con't

16801 - TGTAGCAGCTAAACTGCCCAGCACCATACCTCTATTTAGGTTGTTTAAGCCTTTGATGAA - 16860
 - C S S * T A Q H H T S I * V V * A F D E
 - V A A K L P S T I P L F R L F K P L M K
 - * Q L N C P A P Y L Y L G C L S L * * S
 16861 - GTACAAGTATTTCACTTTAGGCCCTTTTGGTGTGTCTGTAACAAACCTACAAGGTGGTTC - 16920
 - V Q V F H F R P F W C V C N K P T R W F
 - Y K Y F T L G P F G V S V T N L Q G G S
 - T S I S L * A L L V C L * Q T Y K V V P
 16921 - CAGTTCTGTGTAAATTGTACCTGTACCATCACTCTTAGGGAATCTAGCCCATTGAGATC - 16980
 - Q F C V N C T C T I T L R E S S P F E I
 - S S V * I V P V P S L L G N L A H L R S
 - V L C K L Y L Y H H S * G I * P I * D L
 16981 - TTGGTGGTCTGATAGTAATGCCAGCACAAACCTACCTCCCTTCGAATTGTTATAGTAGGC - 17040
 - L V V * * * C Q H K P T S L R I V I V G
 - W W S D S N A S T N L P P F E L L * * A
 - G G L I V M P A Q T Y L P S N C Y S R Q
 17041 - AAGTGCATTGTCATCAGTACAAGCTGTTTGTGTGGTACCAGCCGCACAGGACATCTGTCTG - 17100
 - K C I V I S T S C L C G T S R T G H L S
 - S A L S S V Q A V C V V P A A Q D I C R
 - V H C H Q Y K L F V W Y Q P H R T S V V
 17101 - TAGTGCTACTGGACTCAGTTCATTATTCTGTAGTTTAAACAGCTGAGTTGGCTCTTAGAGC - 17160
 - * C Y W T Q F I I L * F N S * V G S * S
 - S A T G L S S L F C S L T A E L A L R A
 - V L L D S V H Y S V V * Q L S W L L E L
 17161 - TGTAACAATAAGAGGCCAAGCCAAATTTGGTGAATTGTCCATGTTAATTTCACTAAGTTG - 17220
 - C N N K R P S Q I W * I V H V N F T K L
 - V T I R G Q A K F G E L S M L I S L S *
 - * Q * E A K P N L V N C P C * F H * V E
 17221 - AACAACTCTTGCTATCCGCATCAACAACCTTGCTGGATTTCACAGAGTGCAGATGCATATGT - 17280
 - N N L A I R I N N L L D F P E C R C I C
 - T I L L S A S T T C W I S Q S A D A Y V
 - Q S C Y P H Q Q L A G F P R V Q M H M *
 17281 - AAAGGTGTTACCATCACAAGTGTTCTTGTAGGTACCATAATCAGGGACAACAACCATGAG - 17340
 - K G V T I T S V L V G T I I R D N N H E
 - K V L P S Q V F L * V P * S G T T T M S
 - R C Y H H K C S C R Y H N Q G Q Q P * V
 17341 - TTTGGCTGCTGTAGTCAATGGTATGTTGAGTGGAAACACAACCATCACGCGCATTGTT - 17400
 - F G C C S Q W Y D V E W N T T I T R I V
 - L A A V V N G M M L S G T Q P S R A L L
 - W L L * S M V * C * V E H N H H A H C *
 17401 - GATAATGTTGTTAAGTGCATCATTATCAAGCTTCCTAAGCATAGTGAAGAGCATTGTTTG - 17460
 - D N V V K C I I I K L P K H S E E H C L
 - I M L L S A S L S S F L S I V K S I V C
 - * C C * V H H Y Q A S * A * * R A L F A
 17461 - CATAGCACTAGTTACTTTTGCCCTCTTGTCCTCAGATCTTGCCCTGTTTGACATTGGGT - 17520
 - H S T S Y F C P L V L R S C L F V H L G
 - I A L V T F A L L S S D L A C L Y I W V
 - * H * L L L P S C P Q I L P V C T F G S
 17521 - CATAGCCTGATCTGCCATCTTTTCCAACCTGCGTTGCATGGCAGCATCACGGTCAAACCTC - 17580
 - H S L I C H L F Q L A L H G S I T V K L
 - I A * S A I F S N L R C M A A S R S N S
 - * P D L P S F P T C V A W Q H H G Q T Q
 17581 - AGATTTAGCCACATTCAAAGATTTCTTTAACTTTTTGAGAACGACTTCAGAATCACCATT - 17640
 - R F S H I Q R F L * L F E N D F R I T I
 - D L A T F K D F F N F L R T T S E S P L
 - I * P H S K I S L T F * E R L Q N H H *

FIG. 12 Con't

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17641 - AGCTACAGCCTGCTCATAGGCCTCCTGGGCGAGTGGCATAAGCGGCATATGATGGTAAAGA - 17700
- S Y S L L I G L L G S G I S G I * W * R
- A T A C S * A S W A V A * A A Y D G K E
- L Q P A H R P P G Q W H K R H M M V K N
17701 - ACTAAATTCTGAAGCAATAGCCTGAAGAGTAGCACGGTTATCGAGCATTTCCTCGCACAA - 17760
- T K F * S N S L K S S T V I E H F L A Q
- L N S E A I A * R V A R L S S I S S H N
- * I L K Q * P E E * H G Y R A F P R T T
17761 - CCTATTAATGTCTACAGCACCTGCATGGATAGCAAAACAGACAAAAGAGAAACCATCTT - 17820
- P I N V Y S T L H G * Q N R Q K R N H L
- L L M S T A P C M D S K T D K R E T I F
- Y * C L Q H P A W I A K Q T K E K P S S
17821 - CTCGAAAGCTTCAGTTGTGTCTTTTGCAAGAAGAATATCATTGTGGAGTTGTACACATTG - 17880
- L E S F S C V F C K K N I I V E L Y T L
- S K A S V V S F A R R I S L W S C T H C
- R K L Q L C L L Q E E Y H C G V V H I V
17881 - TGCCCACAATTTAGAAGATGACTCTACTCTAAGTTGTTGAAGAACCGAGAGCAGTACCAC - 17940
- C P Q F R R * L Y S K L L K N R E Q Y H
- A H N L E D D S T L S C * R T E S S T T
- P T I * K M T L L * V V E E P R A V P Q
17941 - AGATGTGCACTTTACGTCAGACATTTTAGACTGTACAGTAGCAACCTTGATACATGGTTT - 18000
- R C A L Y V R H F R L Y S S N L D T W F
- D V H F T S D I L D C T V A T L I H G L
- M C T L R Q T F * T V Q * Q P * Y M V Y
18001 - ACCTCCAATACCCAACAACCTTAATGTGAAGCTTGAAAGCATCAATACTACTCTTAGGAGG - 18060
- T S N T Q Q L N V K L E S I N T T L R R
- P P I P N N L M L S L K A S I L L L G G
- L Q Y P T T * C * A * K H Q Y Y S * E A
18061 - CAAAAGCCCCTGGGAGTTCATATACCTAAATTCTTGTGTAGAGACCAAGTAGTCATAAAC - 18120
- Q K P L G V H I P K F L C R D Q V V I N
- K S P W E F I Y L N S C V E T K * S * T
- K A P G S S Y T * I L V * R P S S H K H
18121 - ACCAAGAGTAAGCCTGAAGTAACGGTTGAGTAAACAGAAAAGGCCAAAGTAGCAGCAGCA - 18180
- T K S K P E V T V E * T E K A K V A A A
- P R V S L K * R L S K Q K R P K * Q Q Q
- Q E * A * S N G * V N R K G Q S S S S N
18181 - ACAATAGCCTAAGAAACAATAAACAAGCATGATACACTGTAAGGTGTTGCCAGTAATAAA - 18240
- T I A * E T I N K H D T L * G V A S N K
- Q * P K K Q * T S M I H C K V L P V I N
- N S L R N N K Q A * Y T V R C C Q * * I
18241 - TAACAATGGGTAATACTCAACACACACAAACACTATAGCTCTAGCTAAAAACATGATAGT - 18300
- * Q W V I L N T H K H Y S S S * K H D S
- N N G * Y S T H T N T I A L A K N M I V
- T M G N T Q H T Q T L * L * L K T * * S
18301 - CGTAACGACACCAGAATAGTTAGAGGTTACAGAAATAACTAAGGCCACATGGAAATAGC - 18360
- R N D T R I V R G Y R N N * G P H G N S
- V T T P E * L E V T E I T K A H M E I A
- * R H Q N S * R L Q K * L R P T W K * L
18361 - TTGATCTAAAGCATTACCATAGTAGACTTTGTAAACAAGTGTAAATGACATTCATCAGTGT - 18420
- L I * S I T I V D F V N K C N D I H Q C
- * S K A L P * * T L * T S V M T F I S V
- D L K H Y H S R L C K Q V * * H S S V S
18421 - CCAAACACGTCTAGCAGCATCATATAAACAGTGCAGCTGTGATGAGAATAAGCAAAAC - 18480
- P N T S S S I I I N S A S C H E N K Q N
- Q T R L A A S S * T V R A V M R I S K T
- K H V * Q H H H K Q C E L S * E * A K L

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FIG. 12 Con't

18481 - TAAAGCTGAAGCATACATAACACAATCCTTAAGCCTATAACCAGACAAGCTAGTGTGACG - 18540
 - * S * S I H N T I L K P I T R Q A S V S
 - K A E A Y I T Q S L S L * P D K L V S A
 - K L K H T * H N P * A Y N Q T S * C Q P
 18541 - CAATTCAAGCCATGTCATGATACGCATCACCCAGCTAGCAGGCATGTAGACCATATTTAA - 18600
 - Q F K P C H D T H H P A S R H V D H I K
 - N S S H V M I R I T Q L A G M * T I L K
 - I Q A M S * Y A S P S * Q A C R P Y * S
 18601 - GTAAGCAACTGTTGCAAGAGAAGGTAACAGAAACAAGCACAGAATGCGTGCTTATGCTT - 18660
 - V S N C C K R R * Q K Q A Q E C V L M L
 - * A T V A R E G N R N K H K N A C L C L
 - K Q L L Q E K V T E T S T R M R A Y A *
 18661 - AACAAAGCAGCATAGCACATGCAGCAATTGCCATAATACCAAGAGTAAATGGCAAGAAAGC - 18720
 - N K Q H S T C S N C H N T K S K W Q E S
 - T S S I A H A A I A I I P R V N G K K A
 - Q A A * H M Q Q L P * Y Q E * M A R K H
 18721 - ATTCTCGTAAACAAAGAAAAACAGTGACCACTGTGTACTTTGAACAAGAATCAATAGTGA - 18780
 - I L V N K E K Q * P L C T L N K N Q * *
 - F S * T K K N S D H C V L * T R I N S D
 - S R K Q R K T V T T V Y F E Q E S I V M
 18781 - TGTCAAGAAAAGTTAAAAGCATCCAATGATGAGTGCCCTTAACAATTTTCTTGAACCTACC - 18840
 - C Q E S * K H P M M S A L N N F L E L T
 - V K K V K S I Q * * V P L T I F L N L P
 - S R K L K A S N D E C P * Q F S * T Y L
 18841 - TTGGAAGGTAACACCAGAGCATTGTCTAACAACATCAAATGGTGTAAGTCACTCTTCTAA - 18900
 - L E G N T R A L S N N I K W C K L I F *
 - W K V T P E H C L T T S N G V N S S S K
 - G R * H Q S I V * Q H Q M V * T H L L K
 18901 - AATAGTGCTACCAAGGATAGTACGACCATTTCATACCATTCTGCAGCAGCTCTTCAAAGC - 18960
 - N S A T K D S T T I H T I L Q Q L F Q S
 - I V L P R I V R P F I P F C S S S F K A
 - * C Y Q G * Y D H S Y H S A A A L S K Q
 18961 - AGCACACATATCTAAGACGGCAATTCCTGTTTGAGCAGAAAGAGGTCCCAATATGTCAAC - 19020
 - S T H I * D G N S C L S R K R S Q Y V N
 - A H I S K T A I P V * A E R G P N M S T
 - H T Y L R R Q F L F E Q K E V P I C Q H
 19021 - ATGATCTTGTGTCAAAGGTTTCATAGTTGACTTCATTGCCACAAGGTTAAAGTCATTCAA - 19080
 - M I L C Q R F I V V L H C H K V K V I Q
 - * S C V K G S * L Y F I A T R L K S F K
 - D L V S K V H S C T S L P Q G * S H S K
 19081 - AGTAGTGGTGAATCTATTAAGAAACCACCTATCACCATTGATAACAGCAGCATAACAGCCA - 19140
 - S S G E S I K K P P I T I D N S S I Q P
 - V V V N L L R N H L S P L I T A A Y S H
 - * W * I Y * E T T Y H H * * Q Q H T A M
 19141 - TGCCAAAACATTTAATGTTATGGTTGTGTCTGTACCTGCAGCCTGTGCAGTTTGTCTGTC - 19200
 - C Q N I * C Y G C V C T C S L C S L S V
 - A K T F N V M V V S V P A A C A V C L S
 - P K H L M L W L C L Y L Q P V Q F V C Q
 19201 - AACAAATGGACCATAGAATTTACCTTCTAAGTCAGTACCAGCGTGACTCCTGTTGGAAG - 19260
 - N K W T I E F T F * V S T S V Y S C W K
 - T N G P * N L P S K S V P A C T P V G S
 - Q M D H R I Y L L S Q Y Q R V L L L E A
 19261 - CTCCATATGATGCATATAGCAGAAAGACACGCAATCATAATCAATGTTAAAACCAACT - 19320
 - L H M M H I A E R H A I I I N V K T N T
 - S I * C I * Q K D T Q S * S M L K P T L
 - P Y D A Y S R K T R N H N Q C * N Q H Y

FIG. 12 Con't

19321 - ACCACATGATCCATTAAGGAAAGAACCTTTAATGGTATGATTAGGTCTCATGGCACACTG - 19380
 - T T * S I K E R T F N G M I R S H G T L
 - P H D P L R K E P L M V * L G L M A H *
 - H M I H * G K N L * W Y D * V S W H T D
 19381 - ATAAACACCAGATGGTGAACCATTGTAGCATGCTAGAACTGAAAATGTTTGACCAGGTTG - 19440
 - I N T R W * T I V A C * N * K C L T R L
 - * T P D G E P L * H A R T E N V * P G W
 - K H Q M V N H C S M L E L K M F D Q V G
 19441 - GATACGGACAAATTTATACTTGGGTGTCTTAGGGTTAGAAGTATCAACTTTAAGCCTAAG - 19500
 - D T D K F I L G C L R V R S I N F K P K
 - I R T N L Y L G V L G L E V S T L S L S
 - Y G Q I Y T W V S * G * K Y Q L * A * A
 19501 - CAGACAATTTTGCATAGAATGGCCAATAACACGAAGTTGAACATTGCCAGCCTGAACAAG - 19560
 - Q T I L H R M A N N T K L N I A S L N K
 - R Q F C I E W P I T R S * T L P A * T R
 - D N F A * N G Q * H E V E H C Q P E Q E
 19561 - AAAGCTATGGTTGGATTGTGCGAATGAGCAGATCTTCATAGTTAGGATTAAGCATGTCTTC - 19620
 - K A M V G F A N E Q I F I V R I K H V F
 - K L W L D L R M S R S S * L G L S M S S
 - S Y G W I C E * A D L H S * D * A C L L
 19621 - TGCTGTGCAAATGACATGTCTTGGACAGTATACTGTGTCATCCAACCACAATCCATTAAG - 19680
 - C C A N D M S W T V Y C V I Q P Q S I K
 - A V Q M T C L G Q Y T V S S N H N P L R
 - L C K * H V L D S I L C H P T T I H * E
 19681 - AGTTGTAGTTCCACAGGTTACTTGTACCATGCACCCTTCAACTTTGCCTGACGGGAATGC - 19740
 - S C S S T G Y L Y H A P F N F A * R E C
 - V V V P Q V T C T M H P S T L P D G N A
 - L * F H R L L V P C T L Q L C L T G M P
 19741 - CATTTTCTAAAACCACTCTGCAGAACAGCAGAAGTGATTGATGTCTGTGGTGGTTGGTA - 19800
 - H F P K T T L Q N S R S D * C L W W L V
 - I F L K P L C R T A E V I D V C G G W *
 - F S * N H S A E Q Q K * L M S V V V G R
 19801 - GAGAACATCAGCACCTGAGTTGCTAAAGTCATTTAGAGCCTTTGCTAAGTGGCAGCAAGC - 19860
 - E N I S T * V A K V I * S L C * V A A S
 - R T S A P E L L K S F R A F A K W Q Q A
 - E H Q H L S C * S H L E P L L S G S K L
 19861 - TGCTTCACGATAGCTGGTAGTATCTAAGGCTCCACTGAAATACTTGTACTTGTATATAG - 19920
 - C F T I A G S I * G S T E I L V L V I *
 - A S R * L V V S K A P L K Y L Y L L Y R
 - L H D S W * Y L R L H * N T C T C Y I E
 19921 - AGCAAGATACCTGTTATACTGTGTAAGTGGCAACAGTGTCTCGCTACGCAATTTTAGGTA - 19980
 - S K I P V I L C K W Q Q C L A T Q F * V
 - A R Y L L Y C V S G N S V S L R N F R Y
 - Q D T C Y T V * V A T V S R Y A I L G T
 19981 - CATTTCTTGTGAGCAAAAAGGTACACAAAGCAGCCTCCTCGAAGGTACTAAATGTAAC - 20040
 - H F L V E Q K G T Q S S L E G T K C N
 - I S L L S K K V H K A A S S K V L N V T
 - F P C * A K R Y T K Q P P R R Y * M * L
 20041 - TCCATTAAACATGACTCTTTTCCTAAGATAGTTGTTAAAGAACCAATGGCAGTGCTTCAG - 20100
 - S I K H D S F P K I V V K E P M A V L Q
 - P L N M T L F L R * L L K N Q W Q C F R
 - H * T * L F S * D S C * R T N G S A S E
 20101 - AGAAATACAGAATACATAGATTGCTGTTATCCAAAAGGCACAATAGGAGAAAACATGGC - 20160
 - R N T E Y I D C C Y P K R H N R R K H G
 - E I Q N T * I A V I Q K G T I G E N M A
 - K Y R I H R L L L S K K A Q * E K T W Q

FIG. 12 Con't

20161 - AAACCATTGAAGGTGAGCCAAGAATGAAACATCATTGGTGAAATAGAATGTCAAGTACAA - 20220
 - K P L K V S Q E * N I I G E I E C Q V Q
 - N H * R * A K N E T S L V K * N V K Y K
 - T I E G E P R M K H H W * N R M S S T S
 20221 - GTAAAAGACTGAGTAGACTCCCGGCAGAAAGCTGTAAGCTGGTACCAGACAGAGTATAGT - 20280
 - V K D * V D S R Q K A V S W Y Q T E Y S
 - * K T E * T P G R K L * A G T R Q S I V
 - K R L S R L P A E S C K L V P D R V * *
 20281 - GAAAGACATCAAAAACAAAAGTGCATTAGCAGCAACAACATGGTTGTACTCACCAAAAAC - 20340
 - E R H Q K Q K C I S S N N M V V L T K N
 - K D I K N K S A L A A T T W L Y S P K T
 - K T S K T K V H * Q Q Q H G C T H Q K H
 20341 - ACGTCTGAATTTTCATAAAGTAGTAGGCAGCACAAAGTCACCAATATGGCAATAATACCACC - 20400
 - T S E F H K V V G S T S H Q Y G N N T T
 - R L N F I K * * A A Q V T N M A I I P P
 - V * I S * S S R Q H K S P I W Q * Y H Q
 20401 - AGCCACTACTGAAGCAGACACATCTAAAGCACCCACAGGTTGCACAAGAGGAGTAAAGAT - 20460
 - S H Y * S R H I * S T H R L H K R S K D
 - A T T E A D T S K A P T G C T R G V K M
 - P L L K Q T H L K H P Q V A Q E E * R C
 20461 - GTTAGCTATGAGATTCATCGCATCAACACCACAGAAAACCTCTGATAGAGCTCTGTAATG - 20520
 - V S Y E I H R I N T T E N S * * S S V M
 - L A M R F I A S T P Q K T P D R A L * C
 - * L * D S S H Q H H R K L L I E L C N A
 20521 - CTCATTATTAAGAACCCATCTACCACTGGTAGATAGGCAAATACCTACTTCTGACCTTTC - 20580
 - L I I K N P S T T G R * A N T Y F * P F
 - S L L R T H L P L V D R Q I P T S D L S
 - H Y * E P I Y H W * I G K Y L L L T F R
 20581 - GCATTACCATGTCTACGTAAGTACTCAGCATCAAAAGTTGTTACTACTCTAACAGAACCCCTC - 20640
 - A C T M S T V L S I K S C Y Y S N R T L
 - H V P C L Q Y S A S K V V T T L T E P S
 - M Y H V Y S T Q H Q K L L L L * Q N P P
 20641 - CAGGTAAGTGTTAGGAAACTGTATGATGGAACCATCCATAAGCACATAACGAGTGTCTGG - 20700
 - Q V S V R K L Y D G T I H K H I T S V W
 - R * V L G N C M M E P S I S T * R V S G
 - G K C * E T V * W N H P * A H N E C L D
 20701 - ACGAAGCTCACTATAAGAAATAGAACCCTCTAGCAAATTAGTGTACATAACAATATGGCAC - 20760
 - T K L T I R N R T L * Q I S V I T I W H
 - R S S L * E I E P S S K L V S * Q Y G T
 - E A H Y K K * N P L A N * C H N M A Q
 20761 - AGGTTTGCCCATAGCATCCTTAAAAATTGTACACTCAGCAGCAAGAACGCAAGCAGAGGT - 20820
 - R F A H S I L K N C T L S S K N A S R G
 - G L P I A S L K I V H S A A R T Q A E V
 - V C P * H P * K L Y T Q Q Q E R K Q R *
 20821 - AGCAAAATCACTATACTCAATGAGTTTGGAAGGTGTGTAGCAAATGTTGCCAACAGCACT - 20880
 - S K I T I L N E F G R C V A N V A N S T
 - A K S L Y S M S L E G V * Q M L P T A L
 - Q N H Y T Q * V W K V C S K C C Q Q H *
 20881 - AAAAACACGAGGTAGAAAATGCAAGAAGTCACCATTGATTGCTCTCAGCACAGTACCCGG - 20940
 - K N T R * K M Q E V T I D C S Q H S T R
 - K T R G R K C K K S P L I A L S T V P G
 - K H E V E N A R S H H * L L S A Q Y P V
 20941 - TAAGCCAGGCACTATGAAACCAATCTCTTGTAAATGATAGCAGCTACTACAGGGCAGCT - 21000
 - * A R H Y E T N L S C N D S S Y Y R A A
 - K P G T M K P I S L V M I A A T T G Q L
 - S Q A L * N Q S L L * * * Q L L Q G S F

FIG. 12 Con't

21001 - TTTGTCAATTTTTGTATGAACCACCACGCTGGCTAAACCATGCGTCAAACACGATGTTT - 21060
 - F V I F V * T T T L A K P C V K T S M F
 - L S F L Y E P P R W L N H A S K P A C L
 - C H F C M N H H A G * T M R Q N Q H V Y
 21061 - ATTTGCAAAACAATCATCAGTAGAAATGATGTCACGAGTGACACCATCCTGAATGGCTTT - 21120
 - I C K T I I S R N D V T S D T I L N G F
 - F A K Q S S V E M M S R V T P S * M A L
 - L Q N N H Q * K * C H E * H H P E W L C
 21121 - GTAACCAATGATTTTCATTTGTGTAACCATCATGGATTGACAATGTATGTACTGGCATAAC - 21180
 - V T N D F I C V T I M D * Q C M Y W H N
 - * P M I S F V * P S W I D N V C T G I T
 - N Q * F H L C N H H G L T M Y V L A * R
 21181 - GATATAACAAACCAATGCAGCAAGAACGCACAATAATGTGGCCTTAAGCATAAGTTTAAA - 21240
 - D I T N Q C S K N A Q * C G L K H K F K
 - I * Q T N A A R T H N N V A L S I S L K
 - Y N K P M Q Q E R T I M W P * A * V * N
 21241 - ACAAGTACTAACAATCTTACCACCCTTGAGTGAGATTTTAGTAGTTATGACATTGACAAC - 21300
 - T S T N N L T T L E * D F S S Y D I D N
 - Q V L T I L P P L S E I L V V M T L T T
 - K Y * Q S Y H P * V R F * * L * H * Q P
 21301 - CTGTCTAGTTGTAGCACAAGTTAGTGTAAGGATGTTGTTCTTCTTGGCAGCAGTACG - 21360
 - L S S C S T S * C K R Y V V L L G S S T
 - C L V V A Q V S V K G M L F F L A A V R
 - V * L * H K L V * K V C C S S W Q Q Y E
 21361 - AATTTGTTTACGCAGCTGTTTCAGATAAAGACATGTAGTCTTTTACATTCCAGATGAGTGA - 21420
 - N L F T Q L F R * R H V V F Y I P D E *
 - I C L R S C S D K D M * S F T F Q M S E
 - F V Y A A V Q I K T C S L L H S R * V K
 21421 - AACATTGTGACTTTTGTCTACTTGGGCATTGATATGCCTTGCAATACAGTCAATACATGC - 21480
 - N I V T F C Y L G I D M P C I T V N T C
 - T L * L F A T W A L I C L A L Q S I H A
 - H C D F L L L G H * Y A L H Y S Q Y M R
 21481 - GCCAAGATCTCTGGGCGTCATGTTTTCAACCTTATTATAGGTGAGCATGAAATTGTTACA - 21540
 - A K I S G R H V F N L I I G E H E I V T
 - P R S L G V M F S T L L * V S M K L L Q
 - Q D L W A S C F Q P Y Y R * A * N C Y N
 21541 - ACTGTACCTGTCACTTCTAAGTCAGAGTGATGTGAAAGTTTGAGACATTCAATAACATC - 21600
 - T V T C H F * V R V M * K F E T F N N I
 - L S P V T S K S E * C E S L R H S I T S
 - C H L S L L S Q S D V K V * D I Q * H P
 21601 - CTTTGTGTCAACATCGGTATCAACAACACCTTGTGGGCGAGCTGACACGAATGTAGAAAG - 21660
 - L C V N I G I N N T L S G S * H E C R K
 - F V S T S V S T T P C R A A D T N V E R
 - L C Q H R Y Q Q H L V G Q L T R M * K G
 21661 - GACACCATCTAAAGCTACACCCTTTGCTAACTCGCTGTGAGCTGTAGCAACAAGTGCCTT - 21720
 - D T I * S Y T L C * L A V S C S N K C L
 - T P S K A T P F A N S L * A V A T S A L
 - H H L K L H P L L T R C E L * Q Q V P *
 21721 - AAGTTTTTCCATAGGAACACTAAAAGTTGCTGAAAAGGTGTCGACATAAGCATCAAACAT - 21780
 - K F F H R N T K S C * K G V D I S I K H
 - S F S I G T L K V A E K V S T * A S N I
 - V F P * E H * K L L K R C R H K H Q T S
 21781 - CTTAACGGAACTTCAGTACTATCTCCAACGTTTGATACAAGAGCTTGGTCAAGCAACAG - 21840
 - L N G N F S T I S N V * Y K S L V K Q Q
 - L T E T S V L S P T F D T R A W S S N R
 - * R K L Q Y Y L Q R L I Q E L G Q A T E

FIG. 12 Con't

21841 - AATAGGTTGGCACATCAGCTGACTGTAGTACACAGAAGCAGACTTAGAAGCAGACTCGTC - 21900
 - N R L A H Q L T V V H R S R L R S R L V
 - I G W H I S * L * Y T E A D L E A D S S
 - * V G T S A D C S T Q K Q T * K Q T R R
 21901 - GCATTTGGACTTGCCATCAAAAATGACATTAATAGGCAGTGAACCTTTAGTGTGTT - 21960
 - A F G L A I K N Y D I N R Q * T F S V V
 - H L D L P S K T M T L I G S E P L V L L
 - I W T C H Q K L * H * * A V N L * C C *
 21961 - AGCTCTCAAATTGTCTAAATTGACAAAATGGGAGAGCGGATGTCTCTCATAGGTCTTTTG - 22020
 - S S Q I V * I D K M G E R M S L I G L L
 - A L K L S K L T K W E S G C L S * V F *
 - L S N C L N * Q N G R A D V S H R S F D
 22021 - ACCAGCCTTGTCAAAGTAGAGGTGAAGCGCGCCATTTTTCACAGCAACACTATCAACAAT - 22080
 - T S L V K V E V K R A I F H S N T I N N
 - P A L S K * R * S A P F F T A T L S T I
 - Q P C Q S R G E A R H F S Q Q H Y Q Q Y
 22081 - ATACGATGACTGGTCAGTAGGGTTGATTGGTCTTTTAACTGGAGTGACAAATCAGGAGC - 22140
 - I R * L V S R V D W S F K L E * Q I T S
 - Y D D W S V G L I G L L N W S D K S R A
 - T M T G Q * G * L V F * T G V T N H E Q
 22141 - AACTTCATCACTAATGAATGTACTACCAGTGCAAAATGTGTCACAATTGAGACAATTCCA - 22200
 - N F I T N E C T T S A K C V T I E T I P
 - T S S L M N V L P V Q N V S Q L R Q F Q
 - L H H * * M Y Y Q C K M C H N * D N S N
 22201 - ATTGTGAGTCTTGCAGAAGCCACGGCCTCCATTTGCATAGACATAGAAAGATCTCTTCAT - 22260
 - I V S L A E A T A S I C I D I E R S L H
 - L * V L Q K P R P P F A * T * K D L F M
 - C E S C R S H G L H L H R H R K I S S C
 22261 - GCCATTAACAATAGTTGTACACTCAACGCGTGTGGCAGGATTGCGCTTAGCACATCAT - 22320
 - A I N N S C T L N A C G T I A L I A H H
 - P L T I V V H S T R V A R L R L * H I M
 - H * Q * L Y T Q R V W H D C A Y S T S C
 22321 - GCAAGTCGAAGAGGTGCAACCATCCATGATATGAACATAGCTCTTCCATATGTAGTAGAA - 22380
 - A S R R G A T I H D M N I A L P Y V V E
 - Q V E E V Q P S M I * T * L F H M * * K
 - K S K R C N H P * Y E H S S S I C S R K
 22381 - AGAAGCAAAGAAGATGTACATCCTAACCATTCAGAAACGGGTGCCATTTGTACAATACT - 22440
 - R S K E D V H P N H C R N G C H L Y N T
 - E A K K M Y I L T I A E T G A I C T I L
 - K Q R R C T S * P L Q K R V P F V Q Y *
 22441 - AATGATAAACCACATGAGCCAAGAATTGCTGATGAAATGACTAGCAAAATAGCCAAAGAA - 22500
 - N D K P H E P R I A D E M T S K I A K E
 - M I N H M S Q E L L M K * L A K * P K N
 - * * T T * A K N C * * N D * Q N S Q R T
 22501 - CACCTGCATTATAGCTGAAAGACCTAATAAATAAAAGAATTTTGTGAACAACATATATGC - 22560
 - H L H Y S * K T * * I K E F C E Q H I C
 - T C I I A E R P N K * K N F V N N I Y A
 - P A L * L K D L I N K R I L * T T Y M P
 22561 - CAAAACCCACTCAGCGCCAGACCTAAAATTGTCAAGTCTAGCTTGTACGATGAAATCGT - 22620
 - Q N P L S G Q T * N C Q V * L V R * N R
 - K T H S A A R P K I V K S S L Y D E I V
 - K P T Q R P D L K L S S L A C T M K S S
 22621 - CACCTGAATGGTTTCAAGAGCTGGATAAGAATCAAGGGAGTCTAATCCACTTAAACAAAT - 22680
 - H L N G F K S W I R I K G V * S T * T N
 - T * M V S R A G * E S R E S N P L K Q M
 - P E W F Q E L D K N Q G S L I H L N K C

FIG. 12 Con't

22681 - GCTGCAAGGAAAAGAACCTTCACAGAAATCCATAGTAGTAACGTTAGACGAATTAAGATA - 22740
 - A A R K R T F T E I H S S N V R R I K I
 - L Q G K E P S Q K S I V V T L D E L R Y
 - C K E K N L H R N P * * * R * T N * D T
 22741 - CAATTCTCTAACGCCATTACAATAAGAAGGAGCACCAAAATTAGATAAGAGTACACAAA - 22800
 - Q F S N A I T I R R S T K I R * E Y T K
 - N S L T P L Q * E G A P K L D K S T P K
 - I L * R H Y N K K E H Q N * I R V H Q K
 22801 - AGCAGCAGTTACACAGATTAGAGAACCTAAGCAAATACTTAACAACAATAGCCACATAGC - 22860
 - S S S Y T D * R T * A N T * Q Q * P H S
 - A A V T Q I R E P K Q I L N N N S H I A
 - Q Q L H R L E N L S K Y L T T I A T * R
 22861 - GATTGTGAACAATTTAGAAAATTTGGGTGACTTCACATAATTAATGCCGGCATCCAAACA - 22920
 - D C E Q F R K F G * L H I I N A G I Q T
 - I V N N L E N L G D F T * L M P A S K H
 - L * T I * K I W V T S H N * C R H P N I
 22921 - TAATTTAGCAACACTCTTAACACTATTTTTAGCAATAGTTGTAGGTAGTGAAGCTCTAAT - 22980
 - * F S N T L N T I F S N S C R * * S S N
 - N L A T L T L F L A I V V G S E A L I
 - I * Q H S * H Y F * Q * L * V V K L * F
 22981 - TCTAGAATTGGTACTTTTAGTAAAAGTACACAATTGGAACAATAATGTAAACACATAAGG - 23040
 - S R I G T F S K S T Q L E Q * C K H I R
 - L E L V L L V K V H N W N N N V N T * G
 - * N W Y F * * K Y T I G T I M * T H K A
 23041 - CATATAATTGTTAAACACACGTTGTGCTAATCTCTTAGCGCAATTTGATGTTGTAATTGC - 23100
 - H I I V K H T L C * S L S A I * C C N C
 - I * L L N T R C A N L L A Q F D V V I A
 - Y N C * T H V V L I S * R N L M L * L L
 23101 - TGCTTGTCTTAAGAATGGTTTGACATAAGCCAAAATTTTACTCCAAGGAACACTATTAAT - 23160
 - C L S * E W F D I S Q N F T P R N T I N
 - A C P K N G L T * A K I L L Q G T L L I
 - L V L R M V * H K P K F Y S K E H Y * L
 23161 - TGCAGCAATACCATGAGTGGCAATTGTTTTAAACCTAAGGCTAGTGAAAGCTCATTAGG - 23220
 - C S N T M S G N C F * T * G * * K L I R
 - A A I P * V A I V F K P K A S E S S L G
 - Q Q Y H E W Q L F L N L R L V K A H * V
 23221 - TTTCTTAATGGTAATGCTTGTGTTTTCCACATAAGCAGCCATAAGATCCTCATGACCTAA - 23280
 - F L N G N A C V F H I S S H K I L M T *
 - F L M V M L V F S T * A A I R S S * P N
 - S * W * C L C F P H K Q P * D P H D L T
 23281 - CTCTTGTGTTACTTTAACACCTTCATCTGATGGTTTAAGTATGACATTGCCTACAACCTC - 23340
 - L L C Y F N T F I * W F K Y D I A Y N F
 - S C V T L T P S S D G L S M T L P T T S
 - L V L L * H L H L M V * V * H C L Q L R
 23341 - GGTAGTTTTACGTCACACTCTATGACTTCCTTCTGTATGGTAGGATTTTCCACTACTTC - 23400
 - G S F H V T L Y D F L L Y G R I F H Y F
 - V V F T S H S M T S F C M V G F S T T S
 - * F S R H T L * L P S V W * D F P L L L
 23401 - TTCAGAGGTGGGTTGTTGACTTTTACAAGCAAGATTGTCCATTCTTGTGTGCTTCTAC - 23460
 - F R G G L L T F T S K I V H S L C V F Y
 - S E V G C * L S Q A R L S I P C V S S T
 - Q R W V V D F H K Q D C P F L V C L L L
 23461 - TGCCAGAAGTTCAAATGAATTTGAAGTATCTACTGGCTTTGTACTCCAAAGACAACGTAA - 23520
 - C Q N F K * I * S I Y W L C T P K T T *
 - A R T S N E F E V S T G F V L Q R Q R K
 - P E L Q M N L K Y L L A L Y S K D N V N

FIG. 12 Con't

23521 - ACACCAAGTGTGTTGGTTTGAACGTTGTCTTGGTTGTAGCCTGGTTAATGTGCCAAACAAT - 23580
 - T P S V W F E R C L G C S L V N V P N N
 - H Q V F G L N V V L V V A W L M C Q T I
 - T K C L V * T L S W L * P G * C A K Q L
 23581 - TGGCTTATGCAGTAATTTAGCACCTTTCTTGAAACTCGCTGAATAGTGTCTATAGTCAAT - 23640
 - W L M Q * F S T F L E T R * I V S I V N
 - G L C S N L A P F L K L A E * C L * S I
 - A Y A V I * H L S * N S L N S V Y S Q *
 23641 - AGCCACTACATCGCCATTCAAGTCTGGGAAGAATGTGACAGATAGCTCTCGTGAAGCTGG - 23700
 - S H Y I A I Q V W E E C D R * L S * S W
 - A T T S P F K S G K N V T D S S R E A G
 - P L H R H S S L G R M * Q I A L V K L A
 23701 - CTTTGTGAAGCCTGTCAATTTGATTTAAATCATCAGCAAATTTTGTGTTAGAACATGTGAG - 23760
 - L C E A C H L I * I I S K F C V R T C E
 - F V K P V I * F K S S A N F V L E H V S
 - L * S L S F D L N H Q Q I L C * N M * V
 23761 - TTTGAAATTATCAAACTCGCATTTGGTAATGGTTGAGTTGGTACAAGGTCTATAGGCTG - 23820
 - F E I I K T R I W * W L S W Y K V Y R L
 - L K L S K L A F G N G * V G T R S I G C
 - * N Y Q N S H L V M V E L V Q G L * A A
 23821 - CTCTGTATAGTAAGCATTATCCTTTTTATAATACCCATCCAATTTTGGTTCAATCTCTGT - 23880
 - L C I V S I I L F I I P I Q F W F N L C
 - S V * * A L S F L * Y P S N F G S I S V
 - L Y S K H Y P F Y N T H P I L V Q S L C
 23881 - GTAAGTAACCTCCATCGAGTTTATACGACACAGGCTTGATGGTTGTAGTGTAAGATGTTTC - 23940
 - V S N S I E F I R H R L D G C S V R C F
 - * V T P S S L Y D T G L M V V V * D V S
 - K * L H R V Y T T Q A * W L * C K M F P
 23941 - CTTGTAGAAAACATCAGTCACTGGTCCTTTGTACTCTGACATCTTTGTAAGGTGAGCTCC - 24000
 - L V E N I S H W S F V L * H L C K V S S
 - L * K T S V T G P L Y S D I F V R * A P
 - C R K H Q S L V L C T L T S L * G E L R
 24001 - GTCAATACGATAGAGGTCTCCTTAGCAGTTATATGAGTGTAATGACCACACTGATAGTT - 24060
 - V N T I E G L L S S Y M S V M T T L I V
 - S I R * R V S L A V I * V * * P H * * L
 - Q Y D R G S P * Q L Y E C N D H T D S Y
 24061 - ACCAGTGTACTCATTCGCACATAAGAATGTACCTTGCTGTAATTTATACTCAGCAGGTGG - 24120
 - T S V L I R T * E C T L L * F I L S R W
 - P V Y S F A H K N V P C C N L Y S A G G
 - Q C T H S H I R M Y L A V I Y T Q Q V V
 24121 - TGCAGACATCATAACAAAAGAAGACTCTTGTTGTACTAGATATTGTGTAGCATCACGACC - 24180
 - C R H H N K R R L L L Y * I L C S I T T
 - A D I I T K E D S C C T R Y C V A S R P
 - Q T S * Q K K T L V V L D I V * H H D H
 24181 - ACACACACATGGAATGGAAACACCTGTCTTAAGATTATCATAAGATAGAGTACCCATATA - 24240
 - T H T W N G N T C L K I I I R * S T H I
 - H T H G M E T P V L R L S * D R V P I Y
 - T H M E W K H L S * D Y H K I E Y P Y T
 24241 - CATCACAGCTTCTACACCCGTTAAGGTAGTAGTTTTCTGACCACAATGTTTACACACCAC - 24300
 - H H S F Y T R * G S S F L T T M F T H H
 - I T A S T P V K V V V F * P Q C L H T T
 - S Q L L H P L R * * F S D H N V Y T P H
 24301 - ATTAAGAACTCGCTTTGCAGATTCCAAATTAGCATGCTGTAGAAGATGGGTCATAGTTTC - 24360
 - I K N S L C R F Q I S M L * K M G H S F
 - L R T R F A D S K L A C C R R W V I V S
 - * E L A L Q I P N * H A V E D G S * F L

FIG. 12 Con't

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24361 - TCTGACATCACCAAGCTCGCCAACAGTTTATTACTGTAAGCGAGTATGAGTGCACAAAA - 24420
      - S D I T K L A N S F I T V S E Y E C T K
      - L T S P S S P T V L L L * A S M S A Q K
      - * H H Q A R Q Q F Y Y C K R V * V H K S
24421 - GTTAGCAGCATCACCAGCACGGGCTCTATAATAAGCCTCTTGAAGTGCTGGTGCATTGAA - 24480
      - V S S I T S T G S I I S L L K C W C I E
      - L A A S P A R A L * * A S * S A G A L N
      - * Q H H Q H G L Y N K P L E V L V H * I
24481 - TTTGACTTCAAGCTGTTGAAGTGCTAATAAAACACTAGACAAATAACAATTGTTATCAGC - 24540
      - F D F K L L K C * * N T R Q I T I V I S
      - L T S S C * S A N K T L D K * Q L L S A
      - * L Q A V E V L I K H * T N N N C Y Q P
24541 - CCATTTAATTGAAGTTAAACCACCAACTTGAGGAAATTTCCATTTCTTTGTGTGGTTTAA - 24600
      - P F N * S * T T N L R K F P F L C V V *
      - H L I E V K P P T * G N F H F F V W F K
      - I * L K L N H Q L E E I S I S L C G L K
24601 - AGCAGACATGTACCTACCAAGAAAACCTCTCATCAAGAGTATGGTAGTACTCGAAAGCTTC - 24660
      - S R H V P T K K T L I K S M V V L E S F
      - A D M Y L P R K L S S R V W * Y S K A S
      - Q T C T Y Q E N S H Q E Y G S T R K L H
24661 - ACTACGTAGTGTGTCATCACTAGGTAGTACAAAGAAAGTCTTACCCTCATGATTTACATG - 24720
      - T T * C V I T R * Y K E S L T L M I Y M
      - L R S V S S L G S T K K V L P S * F T *
      - Y V V C H H * V V Q R K S Y P H D L H E
24721 - AGGTTTAATTTTTGTAACATCAGCACCATCCAAGTATGTTGGACCAAACCTGCTGTCCATA - 24780
      - R F N F C N I S T I Q V C W T K L L S I
      - G L I F V T S A P S K Y V G P N C C P Y
      - V * F L * H Q H H P S M L D Q T A V H M
24781 - TGTCATAGACATATCCACAAGCTGTGTGTGGAGATTAGTGTGTCCACAGTTGTGAACAC - 24840
      - C H R H I H K L C V E I S V V H S C E H
      - V I D I S T S C V W R L V L S T V V N T
      - S * T Y P Q A V C G D * C C P Q L * T L
24841 - TTTTATAGTCTTAACCTCCCGCAGGGATAAGAGACTCTTTAGTTTGTCAAGTGAAAGAAC - 24900
      - F Y S L N L P Q G * E T L * F V K * K N
      - F I V L T S R R D K R L F S L S S E R T
      - L * S * P P A G I R D S L V C Q V K E P
24901 - CTCACCGTCAAGATGAAACTCGACGGGGCTCTCCAGAGTGTGGTACACAATTTGTGACC - 24960
      - L T V K M K L D G A L Q S V V H N F V T
      - S P S R * N S T G L S R V W Y T I L S P
      - H R Q D E T R R G S P E C G T Q F C H H
24961 - ACGCTTAAGAAATTCAACACCTAACTCTGTACGCTGTCTGAATAGGACCAATCTCTGTA - 25020
      - T L K K F N T * L C T L S * I G P I S V
      - R L R N S T P N S V R C P E * D Q S L *
      - A * E I Q H L T L Y A V L N R T N L C K
25021 - AGAGCCAGCCAAAGAAACTGTTTCTACAAAGTGCTCCTCAGATGTCTTTGATGACGAAGT - 25080
      - R A S Q R N C F Y K V L L R C L * * R S
      - E P A K E T V S T K C S S D V F D D E V
      - S Q P K K L F L Q S A P Q M S L M T K *
25081 - GAGGTATCCATTATATGTAGTAACAGCATCTGGTGATGATACTGACACTACGGCAGGAGC - 25140
      - E V S I I C S N S I W * * Y * H Y G R S
      - R Y P L Y V V T A S G D D T D T T A G A
      - G I H Y M * * Q H L V M I L T L R Q E L
25141 - TTTAAGAGAACGCATACAGCGCGCAGCCTCTTCAAGATTTAAACCATGTGTGCACATAACC - 25200
      - F K R T H T A R S L F K I K T M C H I T
      - L R E R I Q R A A S S R L K P C V T * P
      - * E N A Y S A Q P L Q D * N H V S H N Q

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FIG. 12 Con't

25201 - AATTGGCATTGTGACAAGCGGCTCATTAGAGAGTTTCAGCTTCGTAATAATAGAAGCTAC - 25260
 - N W H C D K R L I * R V Q L R N N R S Y
 - I G I V T S G S F R E F S F V I I E A T
 - L A L * Q A A H L E S S A S * * * K L Q
 25261 - AGGCTCTTTACTAGTATAAAAGAAGAATCGGACACCATAGTCAACGATGCCCTCTTGAAT - 25320
 - R L F T S I K E E S D T I V N D A L L N
 - G S L L V * K K N R T P * S T M P S * I
 - A L Y * Y K R R I G H H S Q R C P L E F
 25321 - TTTAATTCCTTTATACTTACGTTGGATGGTTGCCATTATGGCTCTAACATCCATGCATAT - 25380
 - F N S F I L T L D G C H Y G S N I H A Y
 - L I P L Y L R W M V A I M A L T S M H I
 - * F L Y T Y V G W L P L W L * H P C I *
 25381 - AGGCATTAATTTTCTTGTCTCTTCAGCATGAGCAAGCATTCTCTCAAATTCAGGATAC - 25440
 - R H * F S C L F S M S K H F S Q I P G Y
 - G I N F L V S S A * A S I S L K F Q D T
 - A L I F L S L Q H E Q A F L S N S R I Q
 25441 - AGTTCCTAGAAATCTCTTCTTAGCATTAGGTGCTTCTGAAGGTAGTACATAAAATGCAGA - 25500
 - S S * N L F L S I R C F * R * Y I K C R
 - V P R I S S L A L G A S E G S T * N A D
 - F L E S L P * H * V L L K V V H K M Q I
 25501 - TTTGCATTTCTTAAGAGCAGTCTTAGCTTCTCAAGTGTATAACCAGCACATCCTTGTCC - 25560
 - F A F L K S S L S F L K C I T S T S L S
 - L H F L R A V L A S S S V * P A H P C P
 - C I S * E Q S * L P Q V Y N Q H I L V Q
 25561 - AGGGTACGTGGTTATATACTCATCAACTGGCACTTTCTTCAAAGCTCTTGAGAGCATCTC - 25620
 - R V R G Y I L I N W H F L Q S S * E H L
 - G Y V V I Y S S T G T F F K A L E S I S
 - G T W L Y T H Q L A L S S K L L R A S Q
 25621 - AGTAGTGCCACCAGCCTTTTTGGAGGGTATTACAACACAAGTGATATCACCCTAGTGAT - 25680
 - S S A T S L F G G Y Y N T S D I T T S D
 - V V P P A F L E G I T T Q V I S P L V I
 - * C H Q P F W R V L Q H K * Y H H * * *
 25681 - AACATCACCTACCATGTAAGGTGCATCCTTCTCAAGGAAAGACATATCTTCACCTCTAAG - 25740
 - N I T Y H V R C I L L K E R H I F T S K
 - T S P T M * G A S F S R K D I S S P L S
 - H H L P C K V H P S Q G K T Y L H L * A
 25741 - CATGTTCTGAGAATCATGGTAAAGCTTACCATTGATATCAGCAAACAAGAGTAACTTATT - 25800
 - H V L R I M V K L T I D I S K Q E * L I
 - M F * E S W * S L P L I S A N K S N L L
 - C S E N H G K A Y H * Y Q Q T R V T Y W
 25801 - GGTAAGAACTTAGTTTCTTCCAGTGTGTGGTAACCTCATCAATGCAGGCCTTAATTTT - 25860
 - G K K L S F F Q C C G N L I N A G L N F
 - V R N L V S S S V V V T S S M Q A L I F
 - * E T * F L P V L W * P H Q C R P * F L
 25861 - TGGCTTCACATCGACAGGCTTCTGTACGACAGATTTCTCCTCAGTTTTGGAATCTTCTGT - 25920
 - W L H I D R L L Y D R F L S F G I F C
 - G F T S T G F C T T D F S S V L E S S V
 - A S H R Q A S V R Q I S P Q F W N L L C
 25921 - GTTTGGTGGCTCCTCTTGTGTTAGGTGCTTCCACTCTAGGCTTCAGGTTATCAAGATAATC - 25980
 - V W W L L L F R C F H S R L Q V I K I I
 - F G G S S C L G A S T L G F R L S R * S
 - L V A P L V * V L P L * A S G Y Q D N P
 25981 - CATGACAACCTGCTCATAAAGAGCTTTGTTCATTGACTGCAATATAAACCTGTGTACGAAC - 26040
 - H D N L L I K S F V I D C N I N L C T N
 - M T T C S * R A L S L T A I * T C V R T
 - * Q P A H K E L C H * L Q Y K P V Y E P

FIG. 12 Con't

26041 - CGTCTGCACGCACACTTGTAAGACTGAAGTGGTTTAGCACCAAATATGCCTGCTGACAA - 26100
 - R L H A H L * R L K W F S T K Y A C * Q
 - V C T H T C K D * S G L A P N M P A D N
 - S A R T L V K T E V V * H Q I C L L T T
 26101 - CAATGGTGCAAGTAAGATGTCCTGTGAATTGAAATTTTCATATGCTGCCTTAAGAAGCTG - 26160
 - Q W C K * D V L * I E I F I C C L K K L
 - N G A S K M S C E L K F S Y A A L R S W
 - M V Q V R C P V N * N F H M L P * E A G
 26161 - GATGTCCTCACCTGCATTTAGGTTAGGTCCAACAACATGCAGACACTTCTTAGCAAGATT - 26220
 - D V L T C I * V R S N N M Q T L L S K I
 - M S S P A F R L G P T T C R H F L A R L
 - C P H L H L G * V Q Q H A D T S * Q D Y
 26221 - ATGTCCAGAAAGCAAACAAGACCCTCTACTGTAAGAGGGCCATTAGCTTAATGTAATC - 26280
 - M S R K Q T R P S Y C K R A I * L N V I
 - C P E S K Q D P P T V R G P F S L M * S
 - V Q K A N K T L L L * E G H L A * C N H
 26281 - ATCACTCTCCTTTTGCATGGCACCATTGGTTGCCTTGTTGAGTGCACCTGCTACACCACC - 26340
 - I T L L L H G T I G C L V E C T C Y T T
 - S L S F C M A P L V A L L S A P A T P P
 - H S P F A W H H W L P C * V H L L H H H
 26341 - ACCATGTTTCAGGTGTATGTTAGCAGCATTTACAATCACCATAGGATTAGCACTTTGTGC - 26400
 - T M F Q V Y V S S I Y N H H R I S T L C
 - P C F R C M L A A F T I T I G L A L C A
 - H V S G V C * Q H L Q S P * D * H F V P
 26401 - CTCCTTAACGATGTCAACACATTTAATGGCAACATTGTCAGTAAGTTTAAATAACCACT - 26460
 - L L N D V N T F N G N I V S K F * I T S
 - S L T M S T H L M A T L S V S F K * P V
 - P * R C Q H I * W Q H C Q * V L N N Q *
 26461 - AAAGTGAATTAAGTGTCTTCAGGTGTAGTTCTGGTTCTGGCTCAATCTCTGATTGCTC - 26520
 - K L I N W F F R C R F W F W L N L * L L
 - N * L T G S S G V G S G S G S I S D C S
 - T D * L V L Q V * V L V L A Q S L I A Q
 26521 - AGTAGTATCATCCAGCCAGTCTTCCTCTTCTTCTTCTCAACTCGAACTGTTTCAGCTGA - 26580
 - S S I I Q P V F L F F F L N S N C F S *
 - V V S S S Q S S S S S S S S T R T V S A E
 - * Y H P A S L P L L L P Q L E L F Q L R
 26581 - GGCACCAAATTCCAGAGGGAGACCTTGATAATCATCCTCTGTACCGTACTCATGTTTACA - 26640
 - G T K F Q R E T L I I I L C T V L M F T
 - A P N S R G R P * * S S S V P Y S C S Q
 - H Q I P E G D L D N H P L Y R T H V H R
 26641 - GGTTCATCAATTTCTTCTTCTCACACTCTGCATCGTCCTTCTTCTTCTCATCTGGAGG - 26700
 - G F I N F F F L T L C I V L F F L I W R
 - V S S I S S S S H S A S S S S S S S G G
 - F H Q F L L P H T L H R P L L P H L E G
 26701 - GTAAAAGGAACAATACATACGTGATGAAAAGTTTCTTACCAGCATCATCAAATAAGTA - 26760
 - V K G T I H T * * K V F F T S I I K * V
 - * K E Q Y I R D E K F S S P A S N K *
 - K R N N T Y V M K S F L H Q H H Q I S R
 26761 - GAATGTAGCTACACTCCACTCATCAAGATCAATACCCATGTTGGTAAGGAGATCAGAAAC - 26820
 - E C S Y T P L I K I N T H V G K E I R N
 - N V A T L H S S R S I P M L V R R S E T
 - M * L H S T H Q D Q Y P C W * G D Q K L
 26821 - TGGTTGTAAAGTCTTCACAACAGCCTCTGCTACAACACATGCAAACCTCAGTAACTTCGGT - 26880
 - W L * S L H N S L C Y N T C K L S N F G
 - G C K V F T T A S A T T H A N S V T S V
 - V V K S S Q Q P L L Q H M Q T Q * L R Y

FIG. 12 Con't

26881 - ACCGGATTCAACAGTGTAGACAGAGCACTTTTCATTAAAGCACTTTGTCAACACGTTTCATC - 26940
 - T G F N S V D R A L F I K H F V N T F I
 - P D S T V * T E H F S L S T L S T R S S
 - R I Q Q C R Q S T F H * A L C Q H V H Q
 26941 - AAGCTCAAATGTGATTCTCACATTCTTGTAACCTTGAACCTCCCAAACAGTATCTTCTCC - 27000
 - K L K C D S H I L V T L N F P N S I F S
 - S S N V I L T F L * P * T S Q T V S S P
 - A Q M * F S H S C N L E L P K Q Y L L Q
 27001 - AAAGGTTACACCTTTAATTGGTGCACCCCTTTTAAGCGAAAGACATTGTTTGTAGCCAG - 27060
 - K G Y T F N W C T P F * A K D I V C S Q
 - K V T P L I G A P P F K R K T L F V A S
 - R L H L * L V H P L L S E R H C L * P V
 27061 - TAAACCAGGAGACAATGCGCAGTATTGTTCTTTGTCTTAATCTCTAAGAGCATGAGGCC - 27120
 - * T R R Q C A V L F F V L N L * E H E A
 - K P G D N A Q Y C S L S L I S K S M R P
 - N Q E T M R S I V L C P * S L R A * G H
 27121 - ATTTACACAGACTGGTGTGCCGACGATAGCTCCATTTGTGAAGCTATCAACGGGCGTCTC - 27180
 - I Y T D W C A D D S S I C E A I N G R L
 - F T Q T G V P T I A P F V K L S T G V S
 - L H R L V C R R * L H L * S Y Q R A S R
 27181 - GAGTGCCTTCGAGTTCACCGTTCTTGAGAACAACCTCCTCAGAGGTAAGTACTGTGTCATG - 27240
 - E C F E F T V L E N N L L R G K Y C V M
 - S A S S S P F L R T T S S E V S T V S C
 - V L R V H R S * E Q P P Q R * V L C H V
 27241 - TGAATCACCTTCAAGAAAGGTTACTTCTTTTGGTGCCTTAAGAGGCATGAGTAGTTGCAG - 27300
 - * I T F K K G Y F F W C L K R H E * L Q
 - E S P S R K V T S F G A L R G M S S C S
 - N H L Q E R L L L V P * E A * V V A A
 27301 - CTGCTCCTTGCCACGTATACACTGACGGTAAAGTCCCTTGCTTTGAGCGATGAAGACTTC - 27360
 - L L L A T Y T L T V K S L A L S D E D F
 - C S L P R I H * R * S P L L * A M K T S
 - A P C H V Y T D G K V P C F E R * R L H
 27361 - ACCTAAGTTGAGTGATCGCAACTTTGCGCCAGCGATAGTGACTTGATCAATGCACATTTTC - 27420
 - T * V E * S Q L C A S D S D L I N A H F
 - P K L S D R N F A P A I V T * S M H I S
 - L S * V I A T L R Q R * * L D Q C T F R
 27421 - GAGTGCCTTGTTAACAACATCAATGAAGCATTTTACACAATCCTTGATGTTATCTGAAGC - 27480
 - E C L V N N I N E A F Y T I L D V I * S
 - S A L L T T S M K H F T Q S L M L S E A
 - V P C * Q H Q * S I L H N P * C Y L K Q
 27481 - AACCTGTATTTGACCCTTGACGATGTCAAAAACACCTGTAATGAGAAATTTGAGAATCTC - 27540
 - N L Y L T L D D V K N T C N E K F E N L
 - T C I * P L T M S K T P V M R N L R I S
 - P V F D P * R C Q K H L * * E I * E S P
 27541 - CCAAGCATCCTTGAGAAATTCAACTCCTGCTAAGTTTCGCCTCAATCCATTCAAAGAT - 27600
 - P S I L E K F N S C T K F R L N P F K D
 - Q A S L R N S T P A L S F A S I H S K I
 - K H P * E I Q L L H * V S P Q S I Q R *
 27601 - AGGCCTGAGTTTTTCAACAGTAGTGCCCAAAAGATTAGACAACCACTGAGAAGTCTGTTG - 27660
 - R P E F F N S S A Q K I R Q P L R S L L
 - G L S F S T V V P K R L D N H * E V C C
 - A * V F Q Q * C P K D * T T T E K S V V
 27661 - TACAAGACCACAGTTACATATGCCATAATAATGACACTGTTGGTGAGCAGGTCTGAAGT - 27720
 - Y K T T S Y I C H N N D T V G E Q V * S
 - T R P P V T Y A I I M T L L V S R S E V
 - Q D H Q L H M P * * * H C W * A G L K Y

FIG. 12 Con't

27721 - ATAAACCATGGCGTCGACAAGACGTAATGACTGTTTCAGAAATACCATCAAGTATGGTGAC - 27780
 - I N H G V D K T * * L F R N T I K Y G D
 - * T M A S T R R N D C S E I P S S M V T
 - K P W R R Q D V M T V Q K Y H Q V W * Q
 27781 - AGCTGCTCTTTGCAAATCAGGAATTGAGTGGTTTGCTGCATCAAGTGTGCGCGCAAAAT - 27840
 - S C S L Q I R N * V V C C I K C A R K N
 - A A L C K S G I E W F A A S S V R A K I
 - L L F A N Q E L S G L L H Q V C A Q K L
 27841 - TGATCTGATAACACCAGCAGCCTGTGAGGGAAAACACACAGTGGTGTAAACTGATCT - 27900
 - * S D N T S S L * G K T T Q W C * N * S
 - D L I T P A A C E G K P H S G V K T D L
 - I * * H Q Q P V R E N H T V V L K L I S
 27901 - CTGTTGTCCAATGTTCCAAGCACCTTTTACGGGCTTTCCCTTGGTAACTTTATAGTTACC - 27960
 - L L S N V P S T F Y G L S L G N F I V T
 - C C P M F Q A P F T G F P L V T L * L P
 - V V Q C S K H L L R A F P W * L Y S Y R
 27961 - GCAGGACTCAACAATGGTTTTGAAAGACTTGTAATCAAGACTCTTTATAGTGTCAATAAA - 28020
 - A G L N N G F E R L V I K T L Y S V N K
 - Q D S T M V L K D L * S R L F I V S I K
 - R T Q Q W F * K T C N Q D S L * C Q * R
 28021 - GGCATTGTAGAAGCAGAGAAAGATGCCAAAATGATGGCAACCTCTTCATTCAAATGAAA - 28080
 - G T C R S R E R C Q N D G N L F I Q M K
 - A L V E A E K D A K M M A T S S F K * K
 - H L * K Q R K M P K * W Q P L H S N E N
 28081 - ATCGCCAACAATGTTAATGTTAACACGTTACGACTCAGTATCTCAAGGAGATCCTCATT - 28140
 - I A N N V N V N T F T T Q Y L K E I L I
 - S P T M L M L T R S R L S I S R R S S F
 - R Q Q C * C * H V H D S V S Q G D P H S
 28141 - CAAGGTCTCCACATTGTCACCAGTAATGCCAGTATGGCCTGAGCCAATATCAGCACTAGC - 28200
 - Q G L H I V T S N A S M A * A N I S T S
 - K V S T L S P V M P V W P E P I S A L A
 - R S P H C H Q * C Q Y G L S Q Y Q H * H
 28201 - ACGAGGAACCCAGTAGGCACGCTTATTATAGCAGCCAACATAGGCAAACACACAGCCTCC - 28260
 - T R N P V G T L I I A A N I G K H T A S
 - R G T Q * A R L L * Q P T * A N T Q P P
 - E E P S R H A Y Y S S Q H R Q T H S L Q
 28261 - AAAACATCTAGTCCTACCTCCCTTGCGGAGTCGAGTTTCAATGTTTGAGTGGTTGTGATA - 28320
 - K T S S P T S L A E S S F N V * V V V I
 - K H L V L P P L R S R V S M F E W L * *
 - N I * S Y L P C G V E F Q C L S G C D N
 28321 - ATCTGCAACACTATGCTCAGGTCCAATCTCTGGGTCTTGACAGGCAGGACATGGCATT - 28380
 - I C N T M L R S N L W V L T G R T W H F
 - S A T L C S G P I S G S * Q A G H G I F
 - L Q H Y A Q V Q S L G L D R Q D M A F S
 28381 - CACTACAGCATTAGTAGGTAGGTACCCACATGTAGTAGGTCCTTCAATAACTAAATTTTC - 28440
 - H Y S I S R * V P T C S R S F N N * I F
 - T T A L V G R Y P H V V G P S I T K F S
 - L Q H * * V G T H M * * V L Q * L N F Q
 28441 - AGTGCCACAATGTTCAAGTGGCTTTTCAGAAAGTCGCACGTCTGCCATGAACTTCATC - 28500
 - S A T M F T S G F Q K V A R L P * N F I
 - V P Q C S Q V A F R K S H V C H E T S S
 - C H N V H K W L S E S R T S A M K L H R
 28501 - GCAATGATTACATTTTCATCAAGGTAGACAAGTGCATATTGTTACACTCCTGTGGAGATGC - 28560
 - A M I T F H Q G R Q V H I V T L L W R C
 - Q * L H F I K V D K C I L L H S C G D A
 - N D Y I S S R * T S A Y C Y T P V E M Q

FIG. 12 Con't

28561 - AACAGGGTACACAGAGCGTATACGCCCCATGAAACCCTCAGTCTTTTTCTTTTCAACACG - 28620
 - N R V H R A Y T P H E T L S L F L F N T
 - T G Y T E R I R P M K P S V F F F S T R
 - Q G T Q S V Y A P * N P Q S F S F Q H V
 28621 - TGGTTGAATGACTTTGACTTTTGAGTTAAGAGGAAACACAACTTTGGGCATTCCCCTTT - 28680
 - W L N D F D F * V K R K H K L W A F P F
 - G * M T L T F E L R G N T N F G H S P L
 - V E * L * L L S * E E T Q T L G I P L *
 28681 - GAAAGTGTCAAATTTCTTGGCACTCTTAATTTCTGAAGGGTGTCTGGTGCTCGTAGCTCTT - 28740
 - E S V K F L G T L N F E G C L V L V A L
 - K V S N F L A L L I S K G V W C S * L L
 - K C Q I S W H S * F R R V S G A R S S Y
 28741 - ATCAGAGCGCTCAGTGAACCAGGCAATTTTCATGCTCATGGTCACGGCAGCAGTAGACACC - 28800
 - I R A L S E P G N F M L M V T A A V D T
 - S E R S V N Q A I S C S W S R Q Q * T P
 - Q S A Q * T R Q F H A H G H G S S R H L
 28801 - TCTCTTCGACTCGATGTAATCAAGTTGTTTCGAAAGAGTGCACATTGACTTGCCCGCGCG - 28860
 - S L R L D V I K L F G K S A H * L A R A
 - L F D S M * S S C S E R V H I D L P A R
 - S S T R C N Q V V R K E C T L T C P R V
 28861 - TGCGAGAAAATCTTTGATGCAATCAAGAGGGTACCCATCTGGGCCACAGAAATTGTTGTC - 28920
 - C E K I F D A I K R V P I W A T E I V V
 - A R K S L M Q S R G Y P S G P Q K L L S
 - R E N L * C N Q E G T H L G H R N C C R
 28921 - GACATAGCGAGTGACTGCACCTCCATTGAGCTCACGAGTGAGTTCACGGAGTGCACCACT - 28980
 - D I A S D C T S I E L T S E F T E C T T
 - T * R V T A P P L S S R V S S R S A P L
 - H S E * L H L H * A H E * V H G V H H C
 28981 - GCCATGCTTAGTGTTCAGTTTTGTTTCATAATCTTCAATGGGATCAGTGCCAAGCTCGTC - 29040
 - A M L S V P V L F I I F N G I S A K L V
 - P C L V F Q F C S * S S M G S V P S S S
 - H A * C S S F V H N L Q W D Q C Q A R H
 29041 - ACCTAAGTCATAAGACTTTAGATCGATGCCATAGCTATGACCACCGGCTCCCTTATTACC - 29100
 - T * V I R L * I D A I A M T T G S L I T
 - P K S * D F R S M P * L * P P A P L L P
 - L S H K T L D R C H S Y D H R L P Y Y R
 29101 - GTTCTTACGAAGAAGACATTGCGGTATGCAATTGGGGTTTCGCCCACATGTGGCAGGAG - 29160
 - V L T K K N I A V C N W G F A H M W H E
 - F L R R R T L R Y A I G V S P T C G T S
 - S Y E E E H C G M Q L G F R P H V A R V
 29161 - TACTCCAGTGTTATACCGCTACGACCGTACTGAATGCCGTCCATTTCTGCAACCAGCTC - 29220
 - Y S Q C Y T A T T V L N A V H F C N Q L
 - T P S V I P L R P Y * M P S I S A T S S
 - L P V L Y R Y D R T E C R P F L Q P A Q
 29221 - AACGACCTTGTGGCCGTGATTGGTGCTTAAGGCATCAGAACGTTTAATGAACACATAGGG - 29280
 - N D L V A V I G A * G I R T F N E H I G
 - T T L W P * L V L K A S E R L M N T * G
 - R P C G R D W C L R H Q N V * * T H R A
 29281 - CTGTTCAAGCTGGGGCAGTACGCCTTTTTCCAGCTCTACTAGACCACAAGTGCCATTTTT - 29340
 - L F K L G Q Y A F F Q L Y * T T S A I F
 - C S S W G S T P F S S S T R P Q V P F L
 - V Q A G A V R L F P A L L D H K C H F *
 29341 - GAGGTGTTACGTGCCTCCGATAGGGCCTTCCACAGAGTCCCCGAAGCCACGCACTAG - 29400
 - E V F T C L R * G L F H R V P E A T H *
 - R C S R A S D R A S S T E S P K P R T S
 - G V H V P P I G P L P Q S P R S H A L A

FIG. 12 Con't

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29401 - CACGTCTCTAACCTGAAGGACAGGCAAACCTGAGTTGGACGTGTGTTTTCTCGTTGACACC - 29460
- H V S N L K D R Q T E L D V C F L V D T
- T S L T * R T G K L S W T C V F S L T P
- R L * P E G Q A N * V G R V F S R * H Q
29461 - AAGAACAAGGCTCTCCATCTTACCTTTCGGTCACACCCGGACGAAACCTAGGTATGCTGA - 29520
- K N K A L H L T F R S H P D E T * V C *
- R T R L S I L P F G H T R T K P R Y A D
- E Q G S P S Y L S V T P G R N L G M L M
29521 - TGATCGACTGCAACACGGACGAAACCGTAAGCAGTCTGCAGAAGAGGGACGAGTTACTCG - 29580
- * S T A T R T K P * A V C R R G T S Y S
- D R L Q H G R N R K Q S A E E G R V T R
- I D C N T D E T V S S L Q K R D E L L V
29581 - TTTCTTGTCAACGACAGTAAAATTTATTATTGTTTATACTGCGTAGGTGCACTAGGCATG - 29640
- F L V N D S K I Y Y C L Y C V G A L G M
- F L S T T V K F I I V Y T A * V H * A C
- S C Q R Q * N L L L F I L R R C T R H A
29641 - CAGCCGAGCGACAGCTACACAGATTTTAAAGTTTCGTTTAGAGAACAGATCTACAAGAGAT - 29700
- Q P S D S Y T D F K V R L E N R S T R D
- S R A T A T Q I L K F V * R T D L Q E I
- A E R Q L H R F * S S F R E Q I Y K R S
29701 - CGAGGTTGGTTGGCTTTTCCTGGGTAGGTAAAAACCTAATAT - 29742
- R G W L A F P G * V K T * Y X
- E V G W L F L G R * K P N X
- R L V G F S W V G K N L I X

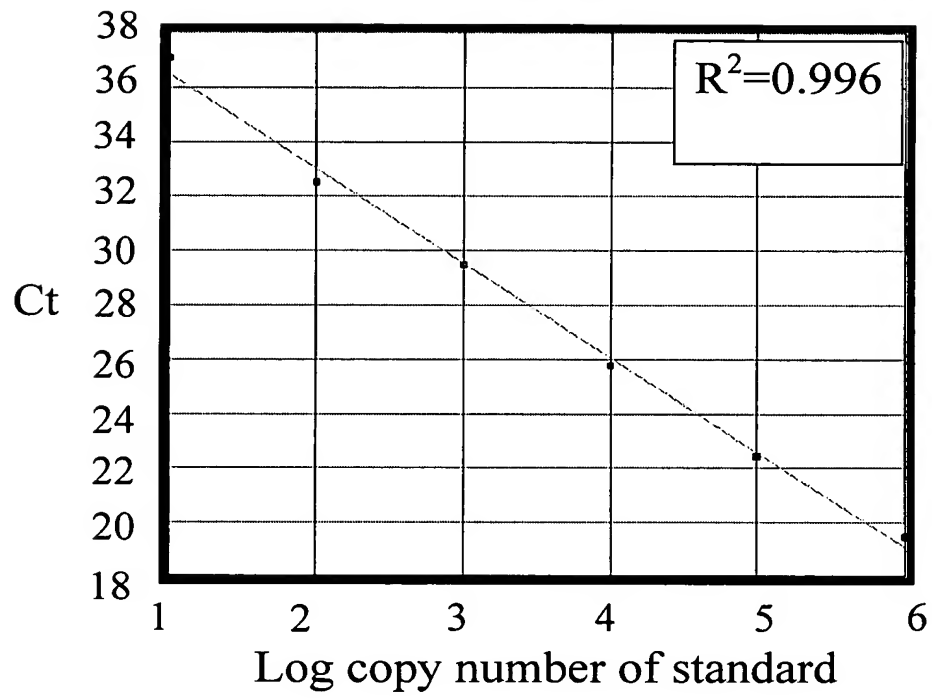
FIG. 12 Con't

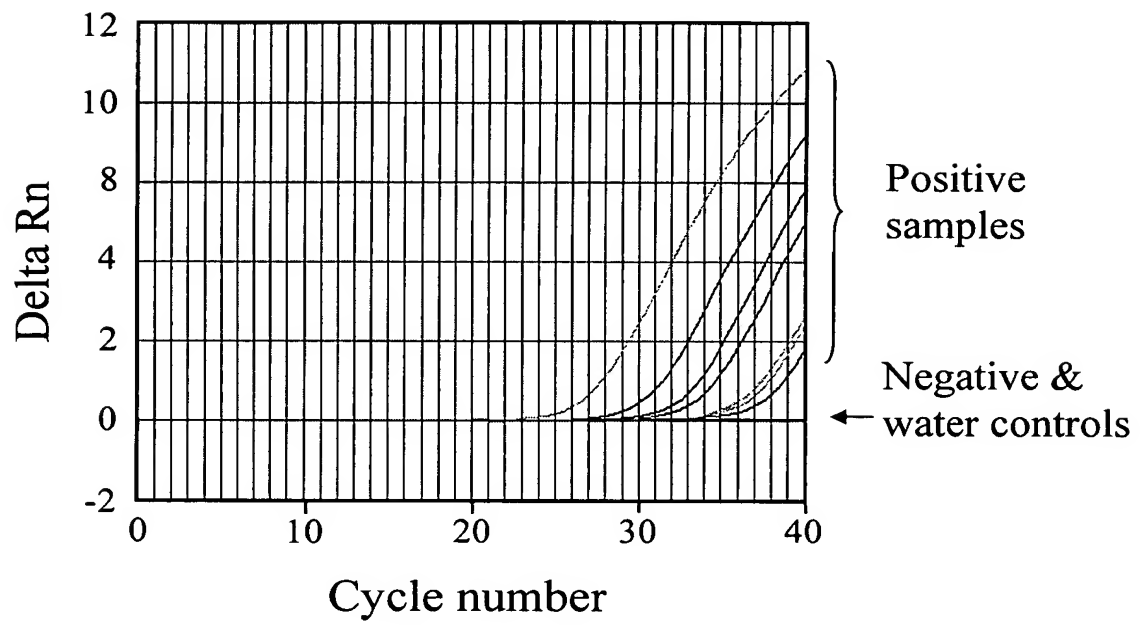
PRIMER AND PROBE SEQUENCES

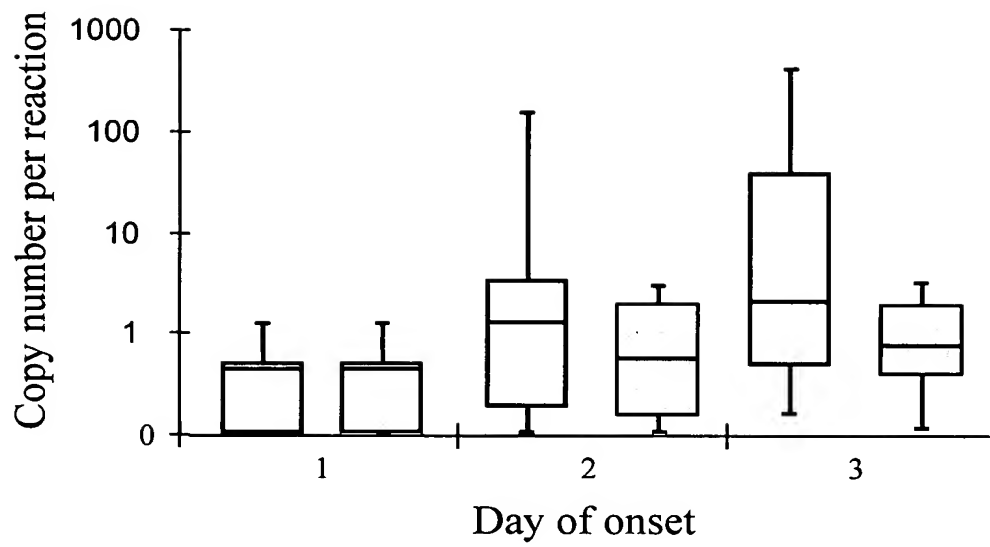
Forward Primer: 5'-CAGAACGCTGTAGCTTCAAAAATCT -3' (SEQ ID NO:2471)
Reverse primer: 5'-TCAGAACCTGTGATGAATCAACAG -3' (SEQ ID NO:2472)
Probe: 5'-TCTGCGTAGGCAATCC-3' (SEQ ID NO:2473) (5' labeled with FAM; 3' labeled with NFQ-MGB)

Forward Primer: 5'-ACCAGAATGGAGGACGCAATG-3' (SEQ ID NO:2474)
Reverse primer: 5'-GCTGTGAACCAAGACGCAGTATTAT -3' (SEQ ID NO:2475)
Probe: 5'-ACCCCAAGGTTTACCC-3' (SEQ ID NO:2476) (5' labeled with FAM; 3' labeled with NFQ-MGB)

FIG. 13

**FIG. 14**

**FIG. 15**

**FIG. 16**